

## **Historic, Archive Document**

Do not assume content reflects current scientific knowledge, policies, or practices.



A292.9  
S03Wat  
Cp. 2



# **WATER SUPPLY OUTLOOK FOR IDAHO**

U. S. DEPT. OF AGRICULTURE  
NATIONAL AGRICULTURAL LIBRARY

MAY 22 1967

and  
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

CURRENT SERIAL RECORDS

UNITED STATES DEPARTMENT of AGRICULTURE---SOIL CONSERVATION SERVICE,  
and  
IDAHO STATE RECLAMATION ENGINEER

Data included in this report were obtained by the agencies named above in cooperation with Federal, State and private organizations listed inside the back cover of this report.

AS OF  
**APR. 1, 1967**



## TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season as they affect runoff will add to be an effective average. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1400 snow courses in Western United States and in the Columbia Basin in British Columbia. In the near future, it is anticipated that automatic snow water equivalent sensing devices along with radio telemetry will provide a continuous record of snow water equivalent at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data or reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

Listed below are water supply outlook reports based on Federal-State-Private Cooperative snow surveys. Those published by the Soil Conservation Service may be obtained from Soil Conservation Service, Room 507, Federal Building, 701 N. W. Glisan, Portland, Oregon 97209.

### PUBLISHED BY SOIL CONSERVATION SERVICE

D. A. WILLIAMS, Administrator

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, Western Regional Technical Service Center, Room 507, 701 N. W. Glisan, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

| STATE              | ADDRESS   |
|--------------------|---|
| Alaska             | P. O. Box "F", Palmer, Alaska 99645               |
| Arizona            | 6029 Federal Building, Phoenix, Arizona 85205     |
| Colorado (N. Mex.) | 12417 Federal Building, Denver, Colorado 80202    |
| Idaho              | P. O. Box 38, Boise, Idaho 83701                  |
| Montana            | P. O. Box 855, Bozeman, Montana 59715             |
| Nevada             | P. O. Box 4850, Reno Nevada 89505                 |
| Oregon             | 1218 S. W. Washington St., Portland, Oregon 97205 |
| Utah               | 4001 Federal Building, Salt Lake City, Utah 84111 |
| Washington         | 840 Bon Marche Bldg., Spokane, Washington 99206   |
| Wyoming            | P. O. Box 340, Casper, Wyoming 82602              |

### PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P. O. Box 388, Sacramento, California 95802 --- and for British Columbia by the Department of Lands, Forests and Water Resources, Water Resources Service, Parliament Building, Victoria, British Columbia



**WATER SUPPLY OUTLOOK**  
and  
**FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS**  
for  
**IDAHO**

*Report prepared by*

MORLAN W. NELSON      Snow Survey Supervisor

*and*

J. ALDEN WILSON      Asst. Snow Survey Supervisor

SOIL CONSERVATION SERVICE  
SNOW SURVEY SECTION  
P.O. BOX 38, BOISE, IDAHO 83701

*Issued by*

LEE T. MORGAN  
STATE CONSERVATIONIST  
SOIL CONSERVATION SERVICE  
BOISE, IDAHO

R. KEITH HIGGINSON  
STATE RECLAMATION ENGINEER  
DEPARTMENT OF RECLAMATION  
BOISE, IDAHO



# TABLE of CONTENTS

|  |    |
|--|----|
| WATER SUPPLY OUTLOOK FOR IDAHO . . . . . | 1  |
| SNOW WATER DEPTHS ACCUMULATION . . . . . | 3  |
| COMPARISON OF SNOW COVER . . . . .       | 4  |
| SNOW WATER DEPTHS MAP . . . . .          | 5  |
| RESERVOIR STORAGE . . . . .              | 6  |
| RESERVOIR STORAGE MAP . . . . .          | 7  |
| STREAMFLOW FORECASTS CHART . . . . .     | 8  |
| PROSPECTIVE STREAMFLOW MAP . . . . .     | 9  |
| STREAMFLOW FORECASTS . . . . .           | 10 |
| VALLEY PRECIPITATION . . . . .           | 13 |

## APPENDIX

### UPPER COLUMBIA and LOWER SNAKE RIVER BASINS -

#### Snow Course Location Map and Index

|   |     |
|---|-----|
| Snow Survey Data for Pend Oreille-Priest, Spokane, Palouse,<br>Clearwater, Salmon and Lemhi River Watersheds. . . . . | i   |
| Soil Moisture Data for Spokane, Clearwater, Salmon<br>and Lemhi River Watersheds . . . . .                            | iii |

### MIDDLE SNAKE RIVER BASIN - NORTHSIDE -

#### Snow Course Location Map and Index

|  |    |
|--|----|
| Snow Survey Data for Little Lost, Big Lost, Little Wood,<br>Big Wood, Boise, Payette and Weiser River Watersheds . . . . | iv |
| Soil Moisture Data for Little Wood, Big Wood and Boise<br>River Watersheds . . . . .                                     | vi |

### MIDDLE SNAKE RIVER BASIN - SOUTHSIDE -

#### Snow Course Location Map and Index

|  |      |
|--|------|
| Snow Survey Data for Raft River, Goose Creek, Salmon Falls<br>Creek, Bruneau and Owyhee River Watersheds . . . . .   | vii  |
| Soil Moisture Data for Raft River, Goose Creek, Salmon Falls<br>Creek, Bruneau and Owyhee River Watersheds . . . . . | viii |

### UPPER SNAKE RIVER BASIN -

#### Snow Course Location Map and Index

|   |    |
|---|----|
| Snow Survey Data for Camas-Beaver Creeks, Henrys Fork River,<br>Teton River, Willow Creek, Sand Creek, Blackfoot River,<br>and Portneuf River Watersheds. . . . . | ix |
| Soil Moisture Data for Henrys Fork River, Teton River,<br>and Portneuf River Watersheds. . . . .  | x  |

### GREAT BASIN -

#### Snow Course Location Map and Index

|   |    |
|---|----|
| Snow Survey Data for Bear River, Montpelier Creek<br>and Mink Creek Watersheds. . . . . | xi |
| Soil Moisture Data for Bear River and Montpelier<br>Creek Watersheds . . . . .          | xi |





# WATER SUPPLY OUTLOOK for IDAHO



## GENERAL SUMMARY FOR APRIL 1, 1967

Snowfall during the past month was generally spotted and did not change the situation existing near the first of March. The Kootenai River watershed in Canada has a record-breaking snow pack at the high elevations. This poses an extreme hazard because of the high volumes of water forecast. The River Forecast Center of the Weather Bureau interpret this volume to be a water stage of 33 to 36 feet at Bonners Ferry. Flood stage is 31 feet. The Big Lost, Little Lost, and Little Wood Rivers also have an unusually heavy snow pack, even though the surrounding rivers have a near normal accumulation of snow. Delayed snow melt, coupled with spring storms, on these streams could result in problems of high water and fast runoff.

The rivers south of the Snake River, such as those in Owyhee County, Salmon Falls Creek, Goose and Trapper Creeks above Oakley Reservoir, are faced with a critical water shortage. Even under normal conditions of precipitation for the remainder of the spring, these areas will have only slightly more than a 50% water supply. The runoff outlook for the remainder of the rivers and streams in the state is forecast at near normal.

Soil moisture conditions have not changed significantly beneath the snow pack at high elevations. Generally, throughout the state, the soil is dry at the higher elevations where snow melt has not yet started. This factor

is expected to reduce streamflow from that indicated by snow-water and precipitation to date. The snowline is unusually high and soil moisture below the snowline has already started to dry out. This situation makes all of our watersheds unusually sensitive to whether or not we have normal spring rains.

March valley precipitation was up sharply from the generally low value of February. Averages for the major river basins in Idaho and eastern Oregon range from 85% of normal in the Upper Snake to 136% in the Kootenai Basin. Accumulated precipitation averages for the period November through March are normal or above in all but the Clark Fork watershed. Five month average precipitation ranges from 97% in the Clark Fork drainage to 119% of normal in the Kootenai Basin.

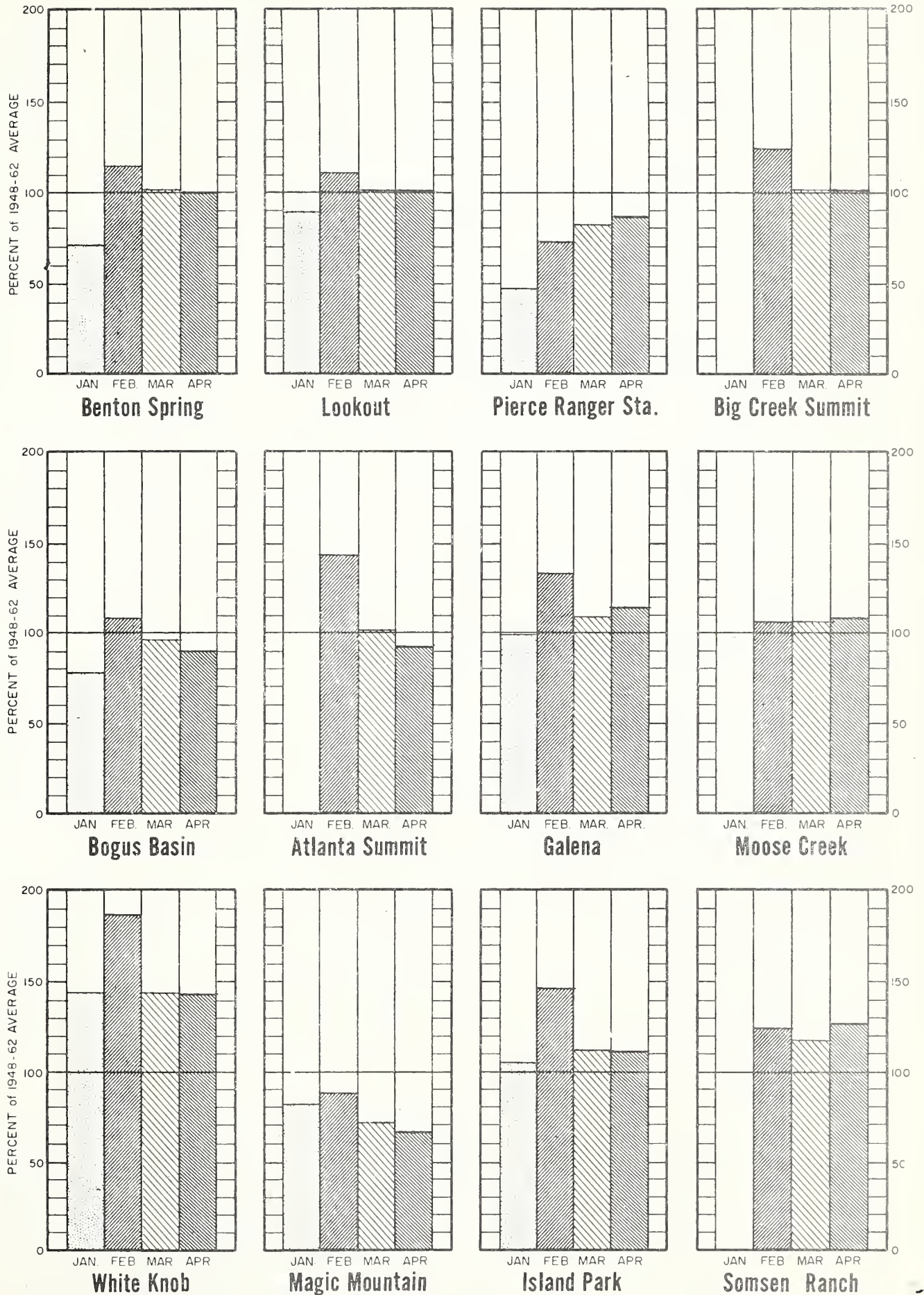
On the Boise River and other smaller streams in southern Idaho, water is already being diverted for irrigation. In practically all cases, the major snow melt has not started and reservoir stored water is being used for this purpose.

The main stem of the Snake River and other rivers with adequate storage facilities will again have to draw on stored water to deliver normal water supplies.



**SNOW WATER DEPTHS ACCUMULATION,  
For Selected Snow Courses  
As Compared To 1948-62 15Yr. Average**

**APRIL 1, 1967**



## COMPARISON of SNOW COVER

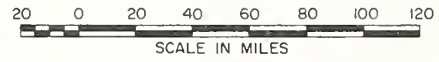
| RIVER BASIN WATERSHED                       | NO. OF COURSES<br>AVERAGED | THIS YEARS SNOW WATER<br>EXPRESSED AS PERCENT OF : |                 |
|---|----------------------------|--|-----------------|
|   |                            | LAST YEAR  | 1948-62 AVERAGE |
| <u>UPPER COLUMBIA RIVER BASIN</u>           |                            |  |                 |
| Kootenai River                              | 13                         | 146  | 137             |
| Pend Oreille River                          | 65                         | 149  | 121             |
| Clark Fork River                            | 41                         | 149  | 111             |
| Flathead River                              | 24                         | 149  | 130             |
| Priest River                                | 2-4                        | 116  | 94              |
| Spokane River                               | 13-17                      | 117  | 103             |
| <u>LOWER SNAKE RIVER BASIN</u>              |                            |  |                 |
| Palouse River                               | 5                          | 78   | 65              |
| Clearwater River                            | 13-26                      | 116  | 102             |
| Salmon River                                | 15-21                      | 130  | 102             |
| Lemhi River                                 | 7                          | 151  | --              |
| <u>MIDDLE SNAKE RIVER BASIN - Northside</u> |                            |  |                 |
| Little Lost River                           | 5                          | 241  | 132             |
| Big Lost River                              | 5-10                       | 169  | 142             |
| Fish Creek                                  | 2                          | 143  | 126             |
| Little Wood River                           | 4-5                        | 155  | 131             |
| Big Wood River                              | 10-11                      | 149  | 109             |
| Canyon Creek                                | 7                          | 221  | --              |
| Boise River                                 | 13-15                      | 132  | 91              |
| Payette River                               | 12-19                      | 120  | 98              |
| Weiser River                                | 2-4                        | 105  | 97              |
| <u>MIDDLE SNAKE RIVER BASIN - Southside</u> |                            |  |                 |
| Raft River                                  | 4-6                        | 114  | 78              |
| Goose-Trapper Creeks                        | 2                          | 123  | 74              |
| Salmon Falls Creek                          | 8-9                        | 136  | 83              |
| Bruneau River                               | 4                          | 120  | 88              |
| Owyhee River                                | 5                          | 135  | 80              |
| <u>UPPER SNAKE RIVER BASIN</u>              |                            |  |                 |
| Upper Snake - Wyoming                       | 21                         | 129  | 99              |
| Camas-Beaver Creeks                         | 3                          | 185  | 126             |
| Medicine Lodge Creek                        | 2                          | 173  | --              |
| Henrys Fork River                           | 4-10                       | 138  | 114             |
| Teton River                                 | 2-4                        | 143  | 95              |
| Blackfoot River                             | 4                          | 131  | 114             |
| Portneuf River                              | 3                          | 164  | 106             |
| <u>GREAT BASIN</u>                          |                            |  |                 |
| Bear River                                  | 15                         | 134  | 98              |
| Montpelier Creek                            | 4                          | 113  | --              |
| Mink Creek                                  | 4                          | 106  | 102             |
| Cub River                                   | 3                          | 128  | 88              |
| Malad River                                 | 2                          | 251  | 88              |



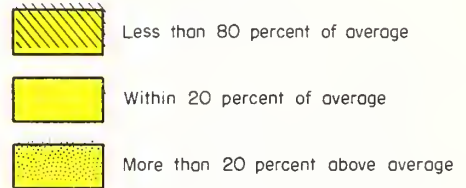
# SNOW WATER DEPTHS

As percent of 1948-62 15 year average  
APRIL 1, 1967

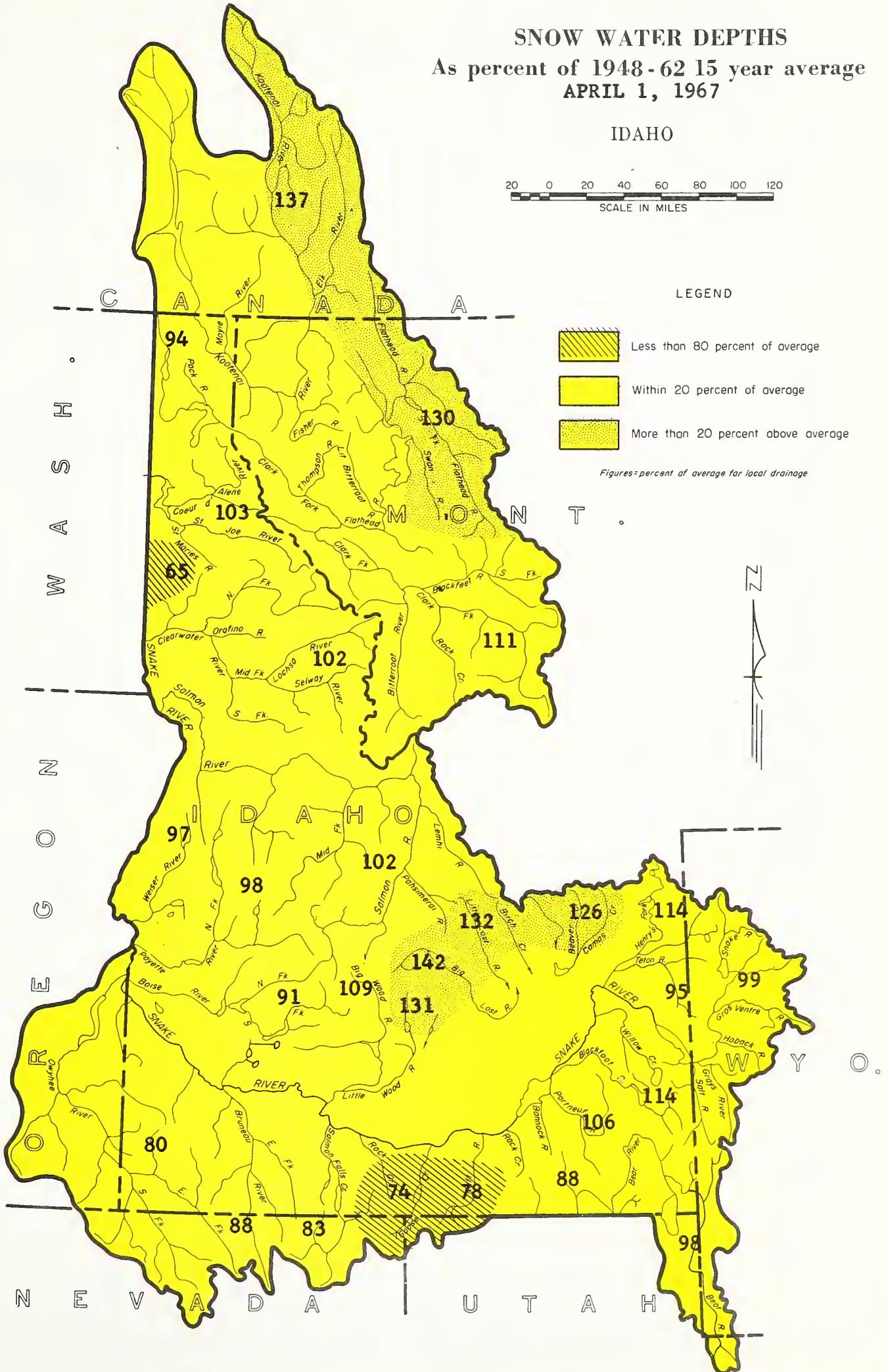
IDAHO



## LEGEND



Figures: percent of average for local drainage





## RESERVOIR STORAGE (1,000 Ac. Ft.)

| RESERVOIR                 | USABLE CAPACITY | MEASURED (First of Month) |           |                   |
|---------------------------|-----------------|---------------------------|-----------|-------------------|
|                           |                 | THIS YEAR                 | LAST YEAR | 1948 - 62 AVERAGE |
| UPPER COLUMBIA BASIN      |                 |                           |           |                   |
| Clark Fork - Pend Oreille |                 |                           |           |                   |
| Hungry Horse              | 3428.0          | 1551.0                    | 2214.0    | 2244.4*           |
| Flathead                  | 1791.0          | 731.3                     | 650.4     | 690.8             |
| Pend Oreille              | 1561.0          | 597.1                     | 966.0     | 669.3             |
| Noxon                     | 334.6           | 153.1                     | 189.0     | --                |
| Spokane                   |                 |                           |           |                   |
| Coeur d'Alene             | 238.5           | 158.1                     | 187.0     | 174.5             |
| SNAKE BASIN               |                 |                           |           |                   |
| Snake                     |                 |                           |           |                   |
| Jackson Lake              | 847.0           | 507.7                     | 695.8     | 393.8             |
| Palisades                 | 1200.0          | 597.0                     | 1037.5    | --                |
| American Falls            | 1700.0          | 1583.6                    | 1428.0    | 1556.6            |
| Island Park               | 127.0           | 115.1                     | 131.0     | 117.1             |
| Grassy Lake               | 15.2            | 9.1                       | 9.3       | 12.1              |
| Brownlee                  | 980.2           | 347.6                     | 390.1     | --                |
| Goose-Trapper Creeks      |                 |                           |           |                   |
| Oakley                    | 74.4            | 13.0                      | 27.2      | 20.4              |
| Salmon Falls Creek        |                 |                           |           |                   |
| Salmon Falls              | 182.6           | 20.6                      | 51.7      | 29.6              |
| Big Lost                  |                 |                           |           |                   |
| Mackay                    | 44.2            | 29.3                      | 43.2      | 32.8              |
| Big Wood                  |                 |                           |           |                   |
| Magic                     | 191.5           | 54.2                      | 190.7     | 107.3             |
| Little Wood               |                 |                           |           |                   |
| Little Wood               | 30.0            | 17.2                      | 25.4      | 12.7*             |
| Fish Creek                |                 |                           |           |                   |
| Carey Valley              | 13.0            | 9.1                       | 11.3      | --                |
| Boise                     |                 |                           |           |                   |
| Anderson Ranch            | 423.2           | 147.3                     | 350.5     | 156.2             |
| Arrowrock                 | 286.6           | 258.1                     | 283.2     | 200.8             |
| Lucky Peak                | 278.2           | 38.4                      | 254.9     | 169.3*            |
| Lake Lowell (Deer Flat)   | 169.0           | 131.2                     | 144.9     | 146.0             |
| Owyhee                    |                 |                           |           |                   |
| Owyhee                    | 715.0           | 422.6                     | 648.4     | 483.4             |
| Payette                   |                 |                           |           |                   |
| Cascade                   | 653.2           | 133.6                     | 443.0     | --                |
| Deadwood                  | 161.9           | 63.7                      | 111.2     | 76.0              |
| GREAT BASIN               |                 |                           |           |                   |
| Bear                      |                 |                           |           |                   |
| Bear Lake                 | 1421.0          | 1099.4                    | 1131.4    | 920.0             |
| *Period of Record.        |                 |                           |           |                   |

# RESERVOIR STORAGE

USABLE CONTENTS (1,000 Acre Feet)

APRIL 1, 1967

50 0 50 100 150  
SCALE IN MILES

Contents  
RESERVOIR  
Capacity

597.1  
PEND OREILLE  
1561.0

158.1  
COEUR D'ALENE  
238.5

63.7  
DEADWOOD  
161.9

133.6  
CASCADE  
653.2

347.6  
BROWNLEE  
980.2

422.6  
OWYHEE  
715.0

131.2  
LAKE LOWELL  
169.0

38.4  
LUCKY PEAK  
278.2

258.1  
ARROWROCK  
286.6

147.3  
ANDERSON RANCH  
423.2

153.1  
NOXON  
334.6

1551.0  
HUNGRY HORSE  
3428.0

731.3  
FLATHEAD LAKE  
1791.0

29.3  
MACKAY  
44.2

115.1  
ISLAND PARK  
127.0

9.1  
GRASSY LAKE  
15.2

507.7  
JACKSON LAKE  
847.0

597.0  
PALISADES  
1200.0

1583.6  
AMERICAN FALLS  
1700.0

1099.4  
BEAR LAKE  
1421.0

17.2  
LITTLE WOOD  
33.3

13.0  
OAKLEY  
74.4

20.6  
SALMON FALLS  
182.6

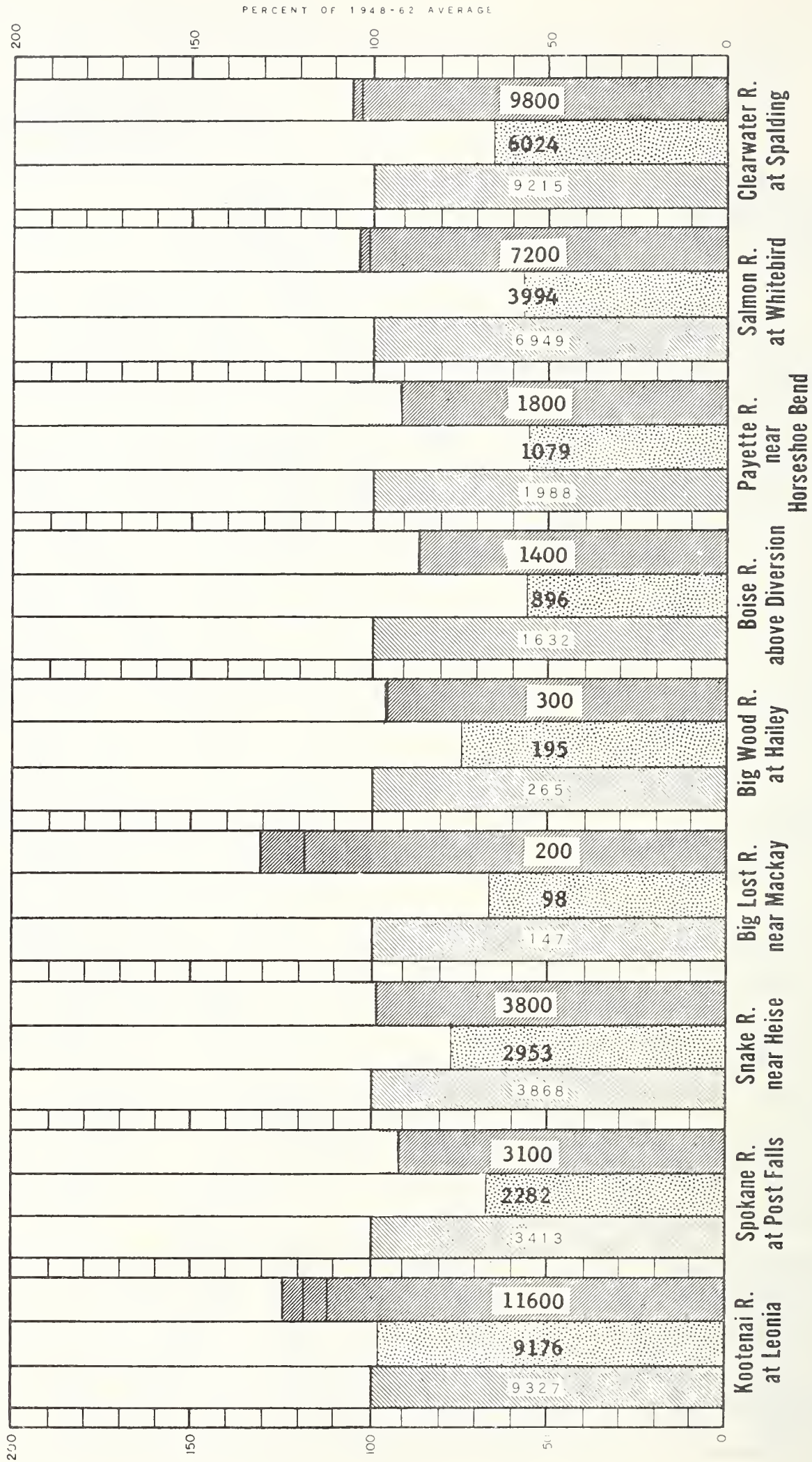
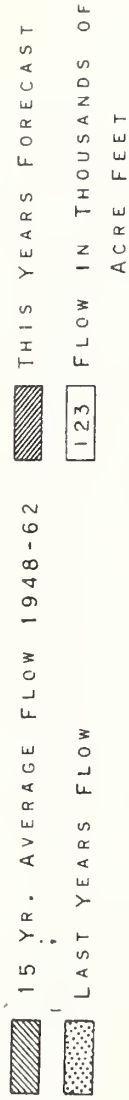
54.2  
MAGIC  
191.5





# STREAMFLOW FORECASTS (April through September period ) Based on Snow Surveys made on approximately

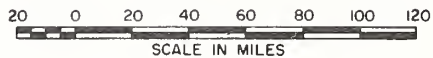
APRIL 1, 1967





# PROSPECTIVE STREAMFLOW

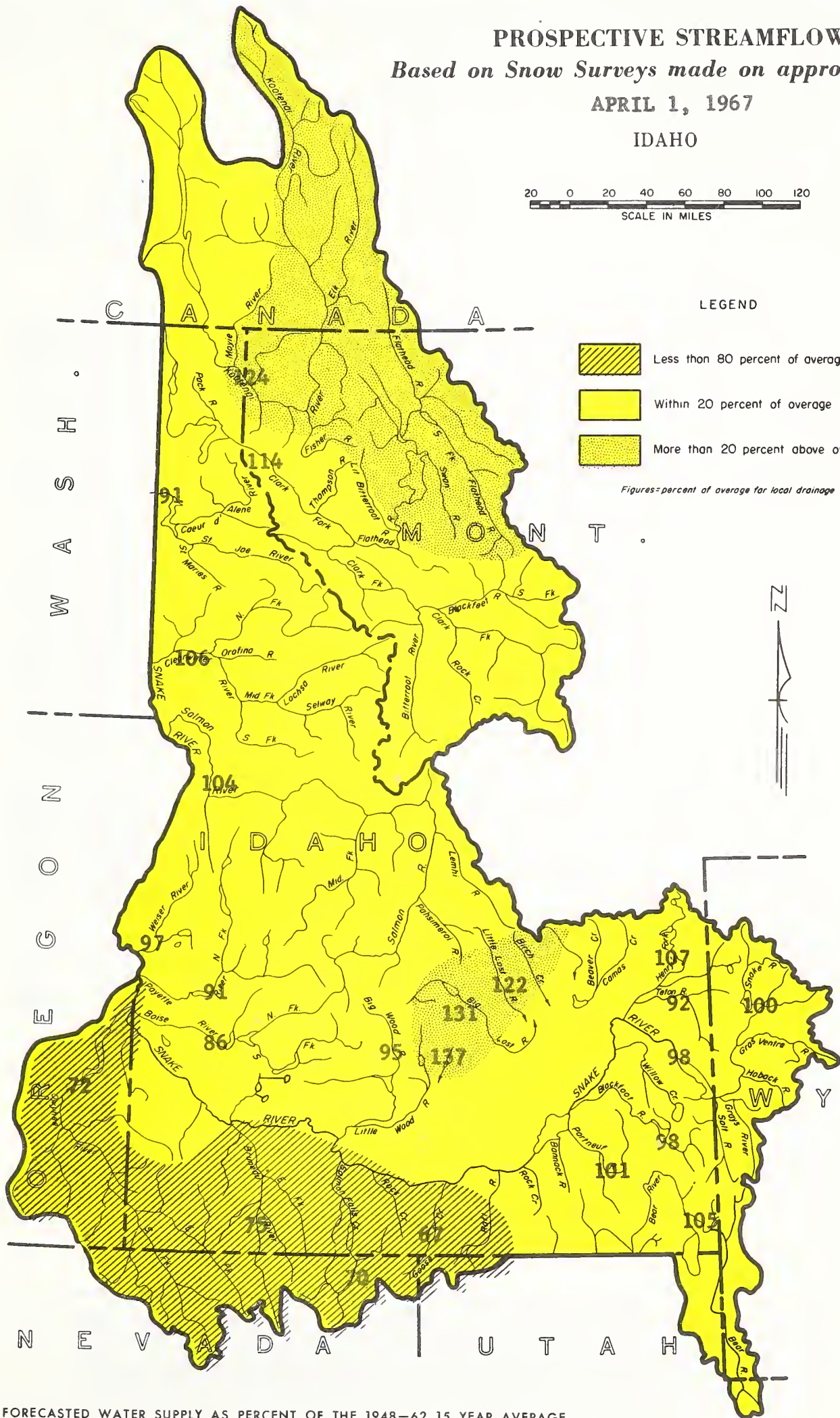
Based on Snow Surveys made on approximately  
APRIL 1, 1967  
IDAHO



## LEGEND

- Less than 80 percent of average
- Within 20 percent of average
- More than 20 percent above average

Figures=percent of average for local drainage



STREAMFLOW FORECASTS<sup>(c)</sup> (1,000 Ac. Ft.)

| STREAM and/or FORECAST POINT | FORECAST<br>THIS YEAR | FORECAST PERIOD | LAST YEAR | 1948-1962<br>AVERAGE | THIS YEAR<br>AS PERCENT<br>OF AVERAGE |
|------------------------------|-----------------------|-----------------|-----------|----------------------|---------------------------------------|
|------------------------------|-----------------------|-----------------|-----------|----------------------|---------------------------------------|

UPPER COLUMBIA BASINKOOTENAI RIVER

|        |      |       |         |      |      |     |
|--------|------|-------|---------|------|------|-----|
| Leonia | (at) | 11600 | Apr-Sep | 9176 | 9327 | 124 |
|        |      | 10250 | Apr-Jul | 8156 | 8179 | 125 |
|        |      | 8270  | Apr-Jun | 6560 | 6601 | 125 |

PEND OREILLE RIVERClark Fork River

|                   |      |       |         |       |       |     |
|-------------------|------|-------|---------|-------|-------|-----|
| Whitehorse Rapids | (at) | 16500 | Apr-Sep | 11474 | 14398 | 114 |
|                   |      | 15000 | Apr-Jul | 10516 | 13187 | 114 |
|                   |      | 12850 | Apr-Jun | 9089  | 11318 | 114 |

Priest River

|                 |      |     |         |     |     |    |
|-----------------|------|-----|---------|-----|-----|----|
| Priest River 1/ | (nr) | 900 | Apr-Jul | 776 | 954 | 95 |
|-----------------|------|-----|---------|-----|-----|----|

SPOKANE RIVER

|               |      |      |         |      |      |    |
|---------------|------|------|---------|------|------|----|
| Post Falls 2/ | (at) | 3100 | Apr-Sep | 2282 | 3413 | 91 |
|---------------|------|------|---------|------|------|----|

Coeur d'Alene River

|         |      |      |         |     |      |    |
|---------|------|------|---------|-----|------|----|
| Cataldo | (nr) | 1250 | Apr-Sep | 979 | 1377 | 91 |
|         |      | 1200 | Apr-Jul | 935 | 1317 | 91 |

St. Joe River

|        |      |      |         |      |      |    |
|--------|------|------|---------|------|------|----|
| Calder | (at) | 1320 | Apr-Sep | 1070 | 1453 | 91 |
|        |      | 1260 | Apr-Jul | 1014 | 1383 | 91 |

SNAKE RIVER BASINSNAKE RIVER - MAIN STEM

|                     |      |      |         |      |      |     |
|---------------------|------|------|---------|------|------|-----|
| Moran 3/            | (at) | 865  | Apr-Sep | --   | 865  | 100 |
| Palisades Inflow 3/ |      | 3390 | Apr-Sep | --   | 3314 | 102 |
| Heise 4/            | (nr) | 3800 | Apr-Sep | 2953 | 3868 | 98  |
| Blackfoot 5/        | (nr) | 3890 | Apr-Jul | 2863 | 3976 | 98  |
| Weiser              | (at) | 5000 | Apr-Sep | --   | 6949 | 72  |

Henrys Fork

|            |      |      |         |     |      |     |
|------------|------|------|---------|-----|------|-----|
| Ashton 6/  | (nr) | 655  | Apr-Sep | 545 | 610  | 107 |
| Rexburg 7/ | (nr) | 1295 | Apr-Sep | 950 | 1258 | 103 |

Teton River

|             |      |     |         |     |     |    |
|-------------|------|-----|---------|-----|-----|----|
| St. Anthony | (nr) | 370 | Apr-Sep | 316 | 402 | 92 |
|-------------|------|-----|---------|-----|-----|----|

Blackfoot River

|                  |  |     |         |    |     |    |
|------------------|--|-----|---------|----|-----|----|
| Blackfoot        |  |     |         |    |     |    |
| Reservoir Inflow |  | 100 | Apr-Sep | -- | 102 | 98 |

(c) Assuming normal meteorological conditions. 1/ Observed flow corrected for storage in Priest Lake. 2/ Observed flow corrected for storage in Coeur d'Alene Lake and diversions by Spokane Valley Farms Company and Rathdrum Prairie canals. 3/ Corrected for storage in Jackson Lake. 4/ Corrected for storage in Jackson Lake and Palisades. 5/ Corrected for storage in Jackson Lake, Palisades, Island Park, Henry's Lake, Grassy Lake and diversions between Heise and Blackfoot. 6/ Corrected for storage in Henry's Lake and Island Park Reservoir. 7/ Corrected for storage in Henry's Lake, Island Park, Grassy Lake and diversions between Ashton and Rexburg.



STREAMFLOW FORECASTS<sup>c</sup> (1,000 Ac. Ft.)

| STREAM and/or FORECAST POINT        |      |  | FORECAST<br>THIS YEAR | FORECAST PERIOD | LAST YEAR | 1948-1962<br>AVERAGE | THIS YEAR<br>AS PERCENT<br>OF AVERAGE |
|-------------------------------------|------|--|-----------------------|-----------------|-----------|----------------------|---------------------------------------|
| <u>Portneuf River</u>               |      |  |                       |                 |           |                      |                                       |
| Topaz                               | (at) |  | 90                    | Mar-Sep         | 75        | 89                   | 101                                   |
| <u>Oakley Reservoir Inflow</u>      |      |  | 15                    | Mar-Sep         | 14.4      | 22.4                 | 67                                    |
| <u>Salmon Falls Creek</u>           |      |  |                       |                 |           |                      |                                       |
| San Jacinto                         | (nr) |  | 55                    | Mar-Sep         | 36        | 78                   | 70                                    |
|                                     |      |  | 53                    | Mar-Jul         | 33        | 76                   | 70                                    |
| <u>Bruneau River</u>                |      |  |                       |                 |           |                      |                                       |
| Hot Springs                         | (nr) |  | 160                   | Mar-Sep         | 84        | 215                  | 75                                    |
| <u>Little Lost River</u>            |      |  |                       |                 |           |                      |                                       |
| Howe                                | (nr) |  | 45                    | Mar-Sep         | 36        | 37                   | 122                                   |
| <u>Big Lost River</u>               |      |  |                       |                 |           |                      |                                       |
| Howell Ranch                        | (at) |  | 230                   | Apr-Sep         | 104       | 181                  | 127                                   |
|                                     |      |  | 165                   | Apr-Jun         | 79        | 131                  | 127                                   |
| Mackay <u>1/</u>                    | (nr) |  | 200                   | Apr-Sep         | 98        | 153                  | 131                                   |
| <u>Big Wood River</u>               |      |  |                       |                 |           |                      |                                       |
| Hailey <u>2/</u>                    | (at) |  | 300                   | Apr-Sep         | 195       | 317                  | 95                                    |
| Magic Reservoir<br>Inflow <u>3/</u> |      |  | 260                   | Mar-Jul         | 157       | 277                  | 94                                    |
| <u>Little Wood River</u>            |      |  |                       |                 |           |                      |                                       |
| High Five Creek                     | (ab) |  | 110                   | Apr-Sep         | 55        | 80                   | 137                                   |
| <u>Boise River</u>                  |      |  |                       |                 |           |                      |                                       |
| Twin Springs                        | (nr) |  | 690                   | Apr-Sep         | 411       | 756                  | 91                                    |
|                                     |      |  | 640                   | Apr-Jul         | 378       | 704                  | 91                                    |
| Boise <u>4/</u>                     | (nr) |  | 1400                  | Apr-Sep         | 896       | 1632                 | 86                                    |
| <u>South Fork</u>                   |      |  |                       |                 |           |                      |                                       |
| Anderson Dam <u>5/</u>              | (at) |  | 550                   | Apr-Sep         | 340       | 610                  | 90                                    |
| <u>Owyhee River</u>                 |      |  |                       |                 |           |                      |                                       |
| Gold Cr., Nev. <u>6/</u>            | (nr) |  | 12                    | Apr-Jul         | 6         | 22                   | 54                                    |
| Owyhee, Nev. <u>6/</u>              | (nr) |  | 38                    | Apr-Jul         | 21        | 74                   | 51                                    |
| Lake Owyhee                         |      |  | 225                   | Apr-Sep         | 105       | 381                  | 59                                    |
| net inflow <u>7/</u>                |      |  | 210                   | Apr-Jul         | --        | 364                  | 58                                    |
| <u>Jordan Creek</u>                 |      |  |                       |                 |           |                      |                                       |
| Lone Tree Creek                     | (ab) |  | 93                    | Apr-Jul         | --        | 116                  | 95                                    |

(c) Assuming normal meteorological conditions. 1/ Observed flow corrected for storage in Mackay Reservoir and diversion in Sharp Ditch. 2/ Combined discharge of Big Wood River and Big Wood Slough corrected for diversions. 3/ Combined flow Big Wood River nr. Bellevue and Camas Creek nr. Blaine. 4/ Corrected for storage in Arrowrock, Anderson Ranch and Lucky Peak. 5/ Corrected for storage in Anderson Ranch Reservoir. 6/ Corrected for storage in Wild Horse Reservoir. 7/ From U.S.B.R. records of inflow.

STREAMFLOW FORECASTS<sup>c</sup> (1,000 Ac. Ft.)

| STREAM and/or FORECAST POINT        |      | FORECAST<br>THIS YEAR | FORECAST PERIOD | LAST YEAR | 1948-1962<br>AVERAGE | THIS YEAR<br>AS PERCENT<br>OF AVERAGE |
|-------------------------------------|------|-----------------------|-----------------|-----------|----------------------|---------------------------------------|
| <u>Payette River</u>                |      |                       |                 |           |                      |                                       |
| Horseshoe Bend <u>1/</u>            | (nr) | 1800                  | Apr-Sep         | 1079      | 1988                 | 91                                    |
| Banks <u>2/</u>                     | (nr) | 940                   | Apr-Jul         | --        | 1036                 | 91                                    |
| <u>North Fork</u>                   |      |                       |                 |           |                      |                                       |
| Cascade <u>3/</u>                   | (at) | 535                   | Apr-Sep         | --        | 589                  | 91                                    |
| Banks <u>3/</u>                     | (nr) | 690                   | Apr-Sep         | --        | 760                  | 91                                    |
| <u>Weiser River</u>                 |      |                       |                 |           |                      |                                       |
| Weiser ab. Crane<br>Creek <u>4/</u> |      | 540                   | Mar-Sep         | --        | 554                  | 97                                    |
| <u>Salmon River</u>                 |      |                       |                 |           |                      |                                       |
| Whitebird                           | (at) | 7200                  | Apr-Sep         | 3994      | 6949                 | 104                                   |
| Challis                             | (nr) | 940                   | Apr-Sep         | --        | 900                  | 104                                   |
|                                     |      | 820                   | Apr-Jul         | --        | 788                  | 104                                   |
| <u>Clearwater River</u>             |      |                       |                 |           |                      |                                       |
| Spalding                            | (at) | 9800                  | Apr-Sep         | 6024      | 9215                 | 106                                   |
| Kamiah                              | (at) | 5440                  | Apr-Sep         | --        | 5130                 | 106                                   |
|                                     |      | 5210                  | Apr-Jul         | --        | 4915                 | 106                                   |
| <u>North Fork</u>                   |      |                       |                 |           |                      |                                       |
| Ahsahka                             | (nr) | 3600                  | Apr-Sep         | --        | 3400                 | 106                                   |
|                                     |      | 3390                  | Apr-Jul         | --        | 3199                 | 106                                   |
| <u>GREAT BASIN</u>                  |      |                       |                 |           |                      |                                       |
| <u>BEAR RIVER</u>                   |      |                       |                 |           |                      |                                       |
| Harer                               | (at) | 270                   | Apr-Sep         | 208       | 258                  | 105                                   |
| <u>Montpelier Creek</u>             |      |                       |                 |           |                      |                                       |
| Montpelier                          | (nr) | 11                    | Apr-Sep         | --        | 11.8                 | 93                                    |
| <u>Cub River</u>                    |      |                       |                 |           |                      |                                       |
| Preston                             | (nr) | 45                    | Apr-Sep         | --        | 49                   | 92                                    |

(c) Assuming normal meteorological conditions. 1/ Corrected for storage in Cascade and Deadwood Reservoirs. 2/ Corrected for storage in Deadwood Reservoir. 3/ Corrected for storage in Cascade Reservoir. 4/ Observed flow of Weiser River nr. Weiser minus observed flow of Crane Creek at mouth.

VALLEY PRECIPITATION 1/  
 Division Averages and Departures  
 In Inches

| DRAINAGE<br>DIVISIONS    | Winter                |                     | March 1967 |                     |
|--------------------------|-----------------------|---------------------|------------|---------------------|
|                          | Nov. 1966 - Mar. 1967 |                     | Observed   | Departure <u>2/</u> |
|                          | Observed              | Departure <u>2/</u> | Observed   | Departure <u>2/</u> |
| Kootenai, Canada & U. S. | 16.79                 | +2.70               | 2.56       | +0.68               |
| Flathead                 | 12.04                 | +1.94               | 1.65       | +0.15               |
| Clark Fork               | 4.51                  | -0.15               | 1.06       | +0.25               |
| Pend Oreille-Spokane     | 21.01                 | +2.08               | 2.86       | 0.00                |
| Upper Snake              | 10.74                 | -0.01               | 1.68       | -0.29               |
| Snake River Plain        | 4.91                  | +0.42               | 1.12       | +0.26               |
| Salmon-Payette-Boise     | 11.82                 | +0.47               | 1.79       | -0.12               |
| Clearwater               | 14.24                 | +0.25               | 2.60       | +0.04               |
| Southeastern Oregon      | 5.99                  | +0.60               | 0.94       | -0.08               |

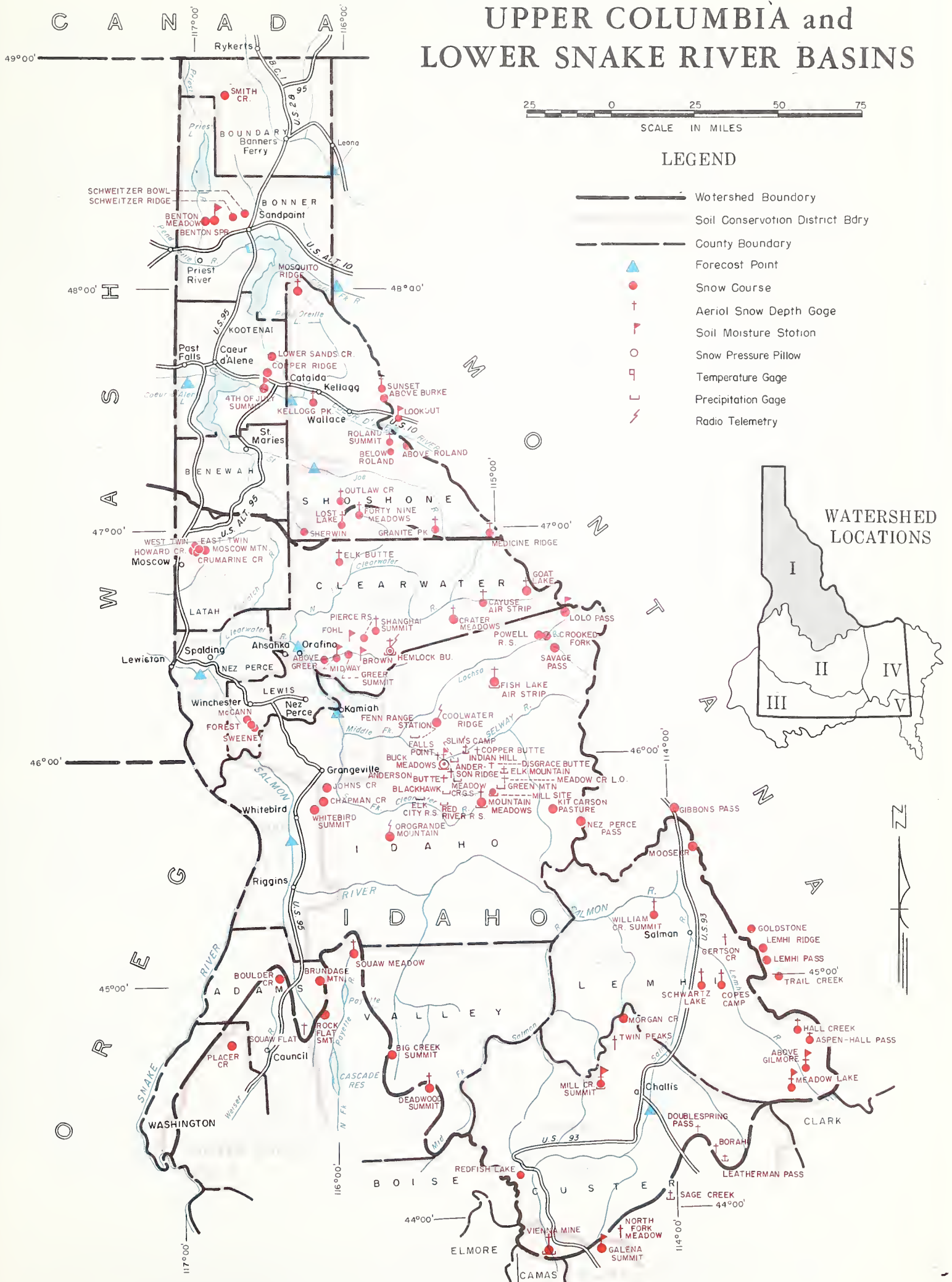
1/ Preliminary analysis by U. S. Weather Bureau from data furnished by Meterological Service of Canada & U. S. Weather Bureau.

2/ Departure from 15-year (1948-62) drainage division average.





# UPPER COLUMBIA and LOWER SNAKE RIVER BASINS





# INDEX to SNOW COURSES

| NO.                         | STATE | NAME             | SEC.<br>LAT. | TWP.<br>OR<br>ANO | RGE.<br>LONG. | ELEV. |
|-----------------------------|-------|------------------|--------------|-------------------|---------------|-------|
| UPPER COLUMBIA BASIN        |       |                  |              |                   |               |       |
| KOOTENAI RIVER              |       |                  |              |                   |               |       |
| 16A1                        | I     | Smith Creek      | 29           | 64N               | 3W            | 4800  |
| PEND OREILLE - PRIEST RIVER |       |                  |              |                   |               |       |
| 16A2                        | I     | Benton Meadow    | 27           | 58N               | 4W            | 2344  |
| 16A3M                       | I     | Benton Spring    | 30           | 58N               | 3W            | 4900  |
| 16A6                        | I     | Schweitzer Bowl  | 20           | 58N               | 2W            | 4500  |
| 16A5                        | I     | Schweitzer Ridge | 19           | 58N               | 2W            | 6100  |

|               |   |                       |         |     |     |      |
|---------------|---|-----------------------|---------|-----|-----|------|
| SPOKANE RIVER |   |                       |         |     |     |      |
| 15B8          | I | Above Burke           | 11      | 48N | 5E  | 4100 |
| 15B7          | I | Above Roland          | 35      | 47N | 6E  | 4350 |
| 15B6          | I | Below Roland          | 34      | 47N | 6E  | 3770 |
| 16B2          | I | Copper Ridge          | 6 & 7   | 50N | 1W  | 4800 |
| 16B3M         | I | Fourth of July Summit | 6       | 49N | 1W  | 3100 |
| 15B13A        | I | Granite Peak          | 3       | 42N | 8E  | 6000 |
| 16B5A         | I | Kellogg Peak          | 19      | 48N | 3E  | 5560 |
| 15B2M         | I | Lookout               | 4       | 47N | 6E  | 5250 |
| 16B1          | I | Lower Sands Creek     | 32      | 51N | 1W  | 3400 |
| 15B4A         | I | Medicine Ridge        | 24      | 43N | 10E | 6150 |
| 16A4A         | I | Mosquito Ridge        | 5       | 54N | 2E  | 5110 |
| 15B12A        | I | Outlaw Creek          | 19      | 44N | 5E  | 3750 |
| 15B5A         | I | Roland Summit         | 26      | 47N | 6E  | 5200 |
| 16C1          | I | Sherwin               | 28 & 33 | 42N | 1E  | 3200 |
| 15B9A         | I | Sunset                | 28      | 49N | 5E  | 5600 |

## LOWER SNAKE BASIN

|               |   |                 |    |     |    |      |
|---------------|---|-----------------|----|-----|----|------|
| PALOUSE RIVER |   |                 |    |     |    |      |
| 16C6          | I | Crumarine Creek | 24 | 40N | 5W | 3500 |
| 16C3          | I | East Twin       | 13 | 40N | 5W | 4000 |
| 16C5          | I | Howard Creek    | 14 | 40N | 5W | 3500 |
| 16C2          | I | Moscow Mountain | 18 | 40N | 4W | 4800 |
| 16C4P         | I | West Twin       | 14 | 40N | 5W | 4200 |

## LEGEND

### Numbering System (example)

|        |  |
|--------|--|
| 10J7   | SNOW COURSE ONLY.  |
| 10J7P  | SNOW COURSE AND PRECIPITATION GAGE.                        |
| 10J7M  | SNOW COURSE AND SOIL MOISTURE STATION.                     |
| 10J7A  | SNOW COURSE AND AERIAL MARKER.                             |
| 10J7MA | SNOW COURSE, SOIL MOISTURE STATION AND AERIAL MARKER.      |
| 10J7MP | SNOW COURSE, SOIL MOISTURE STATION AND PRECIPITATION GAGE. |
| 10J7 m | SOIL MOISTURE STATION ONLY.                                |
| 10J7 a | AERIAL MARKER ONLY.  |
| 10J7 p | STORAGE PRECIPITATION GAGE ONLY.                           |

| NO.              | STATE | NAME                       | SEC.<br>LAT. | TWP.<br>OR<br>ANO | RGE.<br>LONG. | ELEV. |
|------------------|-------|----------------------------|--------------|-------------------|---------------|-------|
| CLEARWATER RIVER |       |                            |              |                   |               |       |
| 16C11            | I     | Above Greer                | 14           | 35N               | 2E            | 1240  |
| 15D7a            | I     | Anderson Butte             | 34           | 30N               | 9E            | 6800  |
| 15D8a            | I     | Anderson Ridge             | 35           | 30N               | 9E            | 5400  |
| 15D9p            | I     | Blackhawk                  | 31           | 29N               | 10E           | 6080  |
| 16C14m           | I     | Brown                      | 11           | 35N               | 3E            | 3100  |
| 15D5APM          | I     | Buck Meadows               | 26           | 31N               | 8E            | 5600  |
| 15C3A            | I     | Cayuse Airstrip            | 4            | 38N               | 11E           | 3700  |
| 15C7             | I     | Coolwater Mountain         | 32           | 33N               | 8E            | 6200  |
| 15D10a           | I     | Copper Butte               | 35           | 31N               | 10E           | 6000  |
| 15C9A            | I     | Crater Meadows             | 2            | 37N               | 9E            | 6100  |
| 14C10            | I     | Crooked Fork               | 27           | 37N               | 14E           | 3800  |
| 15D11a           | I     | Disgrace Butte             | 26           | 30N               | 10E           | 6600  |
| 16C15A           | I     | Elk Butte                  | 6            | 40N               | 3E            | 5550  |
| 15D12p           | I     | Elk City Rgr. Sta.         | 23           | 29N               | 8E            | 4000  |
| 15D13ap          | I     | Elk Mountain               | 34           | 30N               | 11E           | 6900  |
| 15C11a           | I     | Falls Point                | 10           | 31N               | 9E            | 4600  |
| 15C12p           | I     | Fenn Ranger Station        | 23           | 32N               | 7E            | 1580  |
| 15C2AP           | I     | Fish Lake Airstrip         | 35           | 35N               | 11E           | 5000  |
| 15C8m            | I     | Fohl                       | 16           | 36N               | 5E            | 3450  |
| 16C9             | I     | Forest                     | 1            | 32N               | 3W            | 4550  |
| 15B3A            | I     | Forty-nine Meadows         | 6            | 43N               | 5E            | 5000  |
| 14C9A            | I     | Goat Lake                  | 4            | 38N               | 13E           | 6600  |
| 15D14p           | I     | Green Mountain             | 15           | 28N               | 11E           | 7000  |
| 16C13            | I     | Greer Summit               | 13           | 35N               | 2E            | 3000  |
| 15C6AP           | I     | Hemlock Butte              | 7            | 36N               | 7E            | 5500  |
| 15D21a           | I     | Horse Point                | 4            | 30N               | 9E            | 5700  |
| 15D22ap          | I     | Indian Hill                | 30           | 31N               | 10E           | 6100  |
| 14D3             | I     | Kit Carson Pasture         | 4            | 27N               | 16E           | 5020  |
| 14C5M            | I     | Lolo Pass                  | 16           | 38N               | 15E           | 5230  |
| 15B14A           | I     | Lost Lake                  | 16           | 43N               | 4E            | 6000  |
| 15D15p           | I     | Lower Horse Creek          | 28           | 31N               | 9E            | 4100  |
| 16C8             | I     | McCann                     | 25           | 33N               | 3W            | 4300  |
| 15D16p           | I     | Meadow Creek Guard Station | 5            | 29N               | 10E           | 2955  |
| 15D17a           | I     | Meadow Creek Lookout       | 25           | 29N               | 11E           | 7000  |
| 16C12M           | I     | Midway                     | 14           | 35N               | 2E            | 2200  |
| 15D18P           | I     | Mill Site                  | 22           | 28N               | 11E           | 6700  |
| 15D6AP           | I     | Mountain Meadows           | 9            | 27N               | 10E           | 6300  |
| 14D1             | M     | Nez Perce Pass             | 25           | 1S                | 24W           | 6575  |
| 15D4             | I     | Orogrande Mountain         | 24           | 27N               | 6E            | 7800  |
| 15C5             | I     | Pierce Ranger Station      | 2            | 36N               | 5E            | 3170  |
| 14C6             | I     | Powell Ranger Station      | 33           | 37N               | 14E           | 4230  |
| 15D19p           | I     | Red River Ranger Station   | 4            | 27N               | 9E            | 4340  |
| 15D20a           | I     | Sable Hill                 | 14           | 29N               | 10E           | 6000  |
| 14C4             | I     | Savage Pass                | 18           | 36N               | 15E           | 6600  |
| 15C4A            | I     | Shanghai Summit            | 7            | 37N               | 6E            | 4600  |
| 15C13p           | I     | Slim's Camp                | 11           | 31N               | 9E            | 1850  |
| 16C10            | I     | Sweeney                    | 1            | 32N               | 3W            | 4435  |
| SALMON RIVER     |       |                            |              |                   |               |       |
| 13E19MA          | I     | Above Gilmore              | 13           | 13N               | 26E           | 8200  |
| 13E21A           | I     | Aspen-Hall Pass            | 6            | 16N               | 28E           | 8110  |
| 15E2             | I     | Big Creek Summit           | 24           | 15N               | 5E            | 6600  |
| 13E8a            | I     | Borah                      | 21           | 10N               | 23E           | 8250  |
| 16D6             | I     | Brundage Mountain          | 7            | 19N               | 3E            | 7600  |
| 16D2             | I     | Chapman Creek              | 16           | 29N               | 2E            | 4215  |
| 13E17A           | I     | Copes Camp                 | 36           | 18N               | 22E           | 7500  |
| 13E23a           | I     | Doublespring Pass          | 3            | 10N               | 22E           | 8400  |
| 13D17a           | I     | Gertson Creek              | 22           | 22N               | 23E           | 8050  |
| 13D2             | M     | Gibbons Pass               | 4            | 2S                | 19W           | 7100  |
| 13D9             | M     | Gold Stonw                 | 11           | 8S                | 16W           | 8100  |
| 13E20Q           | I     | HallCreek                  | 1            | 16N               | 27E           | 7560  |
| 16D3             | I     | Johns Creek                | 9            | 19N               | 2E            | 3805  |
| 13E22ap          | I     | Leatherman Pass            | 20           | 9N                | 23E           | 9800  |
| 13E23            | M     | Lemhi Ridge                | 4            | 10S               | 15W           | 8100  |
| 13E18MA          | I     | Meadow Lake                | 24           | 13N               | 26E           | 9100  |
| 14E1MAP          | I     | Mill Creek Summit          | 8            | 13N               | 17E           | 8870  |
| 13D16            | I     | Moose Creek                | 22 & 26      | 27N               | 21E           | 6200  |
| 14E4             | I     | Morgan Creek               | 32           | 18N               | 19E           | 7580  |
| 14E2             | I     | Redfish Lake               | 3            | 9N                | 13E           | 6600  |
| 13E16A           | I     | Schwartz Lake              | 34           | 18N               | 22E           | 8500  |
| 13E2             | M     | Trail Creek                | 15           | 10S               | 15W           | 7090  |
| 14E3a            | I     | Twin Peaks                 | 28           | 15N               | 17E           | 10300 |
| 14F4AP           | I     | Vienna Mine                | 32           | 6N                | 14E           | 8900  |
| 16D5             | I     | Whitebird Summit           | 17           | 29N               | 2E            | 4390  |
| 14D4             | I     | Williams Creek             | 34           | 21N               | 20E           | 7800  |

## SNOW

| DRAINAGE BASIN and SNOW COURSE |     |           | CURRENT INFORMATION |                     |                        | PAST RECORD            |                      |
|--------------------------------|-----|-----------|---------------------|---------------------|------------------------|------------------------|----------------------|
|                                |     |           | DATE OF SURVEY      | SNOW DEPTH (Inches) | WATER CONTENT (Inches) | WATER CONTENT (Inches) |                      |
| NAME                           | NO. | ELEVATION |                     |                     |                        | LAST YEAR              | AVERAGE <sup>b</sup> |

UPPER COLUMBIA RIVER BASINKOOTENAI RIVER

|             |      |      |      |     |      |      |      |
|-------------|------|------|------|-----|------|------|------|
| Smith Creek | 16A1 | 4800 | 3/29 | 124 | 49.3 | 47.4 | 50.9 |
|-------------|------|------|------|-----|------|------|------|

PEND OREILLE - PRIEST RIVER

|                  |      |      |      |     |      |      |      |
|------------------|------|------|------|-----|------|------|------|
| Benton Meadow    | 16A2 | 2344 | 3/31 | 5   | 1.6  | 2.8  | 3.3  |
| Benton Spring    | 16A3 | 4900 | 3/31 | 64  | 23.0 | 19.0 | 22.9 |
| #Mosquito Ridge  | 16A4 | 5110 | 4/6  | 119 | 51.0 | 39.0 | 41.2 |
| Schweitzer Bowl  | 16A6 | 4500 | 4/1  | 101 | 39.3 | 34.2 | --   |
| Schweitzer Ridge | 16A5 | 6100 | 4/1  | 143 | 57.7 | 48.8 | --   |

SPOKANE RIVER

|                       |       |      |      |     |      |      |       |
|-----------------------|-------|------|------|-----|------|------|-------|
| Above Burke           | 15B8  | 4100 | 3/29 | 75  | 28.5 | 26.7 | 22.5  |
| Above Roland          | 15B7  | 4350 | 3/30 | 104 | 41.1 | 29.7 | 32.3  |
| Below Roland          | 15B6  | 3770 | 3/30 | 48  | 18.9 | 15.2 | 15.5  |
| Copper Ridge          | 16B2  | 4800 | 3/31 | 82  | 33.6 | 29.4 | 33.3  |
| #Forty-nine Meadows   | 15B3  | 5000 | 4/1  | 89  | 34.2 | 34.7 | 39.4  |
| Fourth of July Summit | 16B3  | 3100 | 3/30 | 25  | 8.2  | 8.2  | 11.2  |
| Granite Peak          | 15B13 | 6000 | 4/1  | 143 | 52.4 | 47.0 | --    |
| Kellogg Peak          | 16B5  | 5560 | 4/4  | 90  | 36.1 | 32.4 | 35.8* |
| Lookout               | 15B2  | 5250 | 3/30 | 114 | 40.8 | 34.3 | 40.5  |
| #Lost Lake            | 15B14 | 6000 | 4/1  | 169 | 67.4 | 53.6 | --    |
| Lower Sands Creek     | 16B1  | 3400 | 4/3  | 49  | 17.4 | 20.2 | 22.7* |
| Medicine Ridge        | 15B4  | 6150 | 4/1  | 143 | 57.2 | 46.8 | --    |
| Mosquito Ridge        | 16A4  | 5110 | 4/6  | 119 | 51.0 | 39.0 | 41.2  |
| Outlaw Creek          | 15B12 | 3750 | 4/1  | 46  | 15.0 | 18.0 | --    |
| Pegleg Mountain       | 15B15 | 5735 | 4/1  | 40  | 12.4 | --   | --    |
| Roland Summit         | 15B5  | 5200 | 3/30 | 130 | 47.1 | 27.7 | 44.7* |
| Sherwin               | 16C1  | 3200 | 3/30 | 41  | 13.0 | 11.3 | 15.8  |
| Sunset                | 15B9  | 5600 | 3/28 | 111 | 43.5 | 35.3 | 36.3* |
| Timber Camp Flat      | 15B16 | 4300 | 4/1  | 65  | 23.1 | --   | --    |

LOWER SNAKE RIVER BASINPALOUSE RIVER

|                       |      |      |      |    |      |      |       |
|-----------------------|------|------|------|----|------|------|-------|
| Crumarine Creek       | 16C6 | 3500 | 3/29 | 8  | 1.1  | 0.0  | 4.7*  |
| East Twin             | 16C3 | 4000 | 3/29 | 31 | 9.2  | 13.0 | 12.3* |
| Howard Creek          | 16C5 | 3500 | 3/29 | 7  | 1.0  | 0.0  | 0.0*  |
| Moscow Mountain       | 16C2 | 4800 | 3/29 | 49 | 14.6 | 18.9 | 21.2* |
| Upper Moscow Mtn.     | 16C7 | 4950 | 3/29 | 52 | 15.0 | --   | --    |
| Upper Moscow Mtn. (R) | 16C7 | 4950 | 3/29 | -- | 15.6 | --   | --    |
| West Twin             | 16C4 | 4200 | 3/29 | 23 | 6.1  | 9.1  | 11.2* |

(b) 1948-62, 15 year period. # Not located directly on this drainage. \* Estimated 1948-62, 15 year Average. (A) Aerial observation; Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.

## SNOW

| DRAINAGE BASIN and SNOW COURSE |     |           | CURRENT INFORMATION |                     |                        | PAST RECORD            |                      |
|--------------------------------|-----|-----------|---------------------|---------------------|------------------------|------------------------|----------------------|
|                                |     |           | DATE OF SURVEY      | SNOW DEPTH (Inches) | WATER CONTENT (Inches) | WATER CONTENT (Inches) |                      |
| NAME                           | NO. | ELEVATION |                     |                     |                        | LAST YEAR              | AVERAGE <sup>b</sup> |

CLEARWATER RIVER

|                        |       |      |      |     |      |      |       |
|------------------------|-------|------|------|-----|------|------|-------|
| Above Greer            | 16C11 | 1240 | 3/27 | 0   | 0.0  | 0.0  | --    |
| Anderson Butte (A)     | 15D7  | 6800 | 4/3  | 111 | 38.8 | --   | --    |
| Buck Meadows           | 15D5  | 5600 | 3/27 | 85  | 31.8 | 25.8 | --    |
| Buck Meadows (SP)      | 15D5  | 5600 | 3/27 | --  | 34.1 | --   | --    |
| Cayuse Airstrip        | 15C3  | 3700 | 4/1  | 25  | 9.0  | 11.3 | 11.3* |
| Coolwater Mountain     | 15C7  | 6200 | 4/2  | 93  | 33.2 | 25.5 | --    |
| Coolwater Mountain (R) | 15C7  | 6200 | 4/1  | --  | 34.2 | 25.7 | --    |
| Copper Butte (A)       | 15D10 | 6000 | 4/3  | 87  | 31.3 | --   | --    |
| Crater Meadows         | 15C9  | 6100 | 4/1  | 125 | 51.2 | 40.8 | --    |
| Crooked Fork           | 14C10 | 3800 | 3/27 | 42  | 14.1 | 14.2 | --    |
| Disgrace Butte (A)     | 15D11 | 6600 | 4/3  | 75  | 27.0 | --   | --    |
| Elk Butte              | 16C15 | 5550 | 3/25 | 110 | 42.4 | 38.2 | --    |
| Elk Mountain (A)       | 15D13 | 6900 | 4/3  | 115 | 41.4 | --   | --    |
| Falls Point (A)        | 15C11 | 4600 | 4/3  | 63  | 23.3 | --   | --    |
| Fish Lake Airstrip     | 15C2  | 5000 | 4/2  | 118 | 43.6 | 39.0 | 42.9* |
| Forest                 | 16C9  | 4550 | 3/27 | 12  | 4.3  | 10.9 | 6.2*  |
| Forty-nine Meadows     | 15B3  | 5000 | 4/1  | 89  | 34.2 | 34.7 | 39.4  |
| Goat Lake              | 14C9  | 6600 | 4/1  | 133 | 53.6 | 46.0 | --    |
| #Granite Peak          | 15B13 | 6000 | 4/1  | 143 | 52.4 | 47.0 | --    |
| Greer Summit           | 16C13 | 3000 | 3/27 | 0   | 0.0  | 0.0  | --    |
| Hemlock Butte          | 16C6  | 5500 | 4/1  | 142 | 53.0 | 47.1 | --    |
| Hemlock Butte (R)      | 16C6  | 5500 | 4/1  | --  | 61.8 | 43.8 | --    |
| Hemlock Butte (SP)     | 16C6  | 5500 | 4/1  | --  | 61.0 | 41.5 | --    |
| #Hoodoo Creek Mont.    | 15C1  | 5900 | 3/27 | 141 | 53.4 | 42.6 | 53.4  |
| #Hoodoo Creek(SP)Mont. | 15C8  | 6000 | 4/1  | --  | 54.8 | --   | --    |
| Horse Creek #1         | 15C14 | 5500 | 4/3  | 77  | 28.5 | --   | --    |
| Horse Point (A)        | 15D21 | 5700 | 4/3  | 66  | 24.4 | --   | --    |
| Indian Hill (A)        | 15D22 | 6100 | 4/3  | 66  | 23.8 | --   | --    |
| Kit Carson Pasture     | 14D3  | 5020 | 3/31 | 30  | 10.6 | 6.6  | 9.0   |
| Lolo Pass              | 14C5  | 5230 | 3/27 | 94  | 37.8 | 27.5 | 36.4* |
| Lost Lake              | 15B14 | 6000 | 4/1  | 169 | 67.4 | 53.6 | --    |
| McCann                 | 16C8  | 4300 | 3/27 | 14  | 5.3  | 11.6 | 6.3*  |
| Meadow Cr. Lookout (A) | 15D17 | 7000 | 4/3  | 89  | 32.0 | --   | --    |
| #Medicine Ridge        | 15B4  | 6150 | 4/1  | 143 | 57.2 | 46.8 | --    |
| Midway                 | 16C12 | 2200 | 3/27 | 0   | 0.0  | 0.0  | --    |
| Mill Site (SP)         | 15D18 | 6700 | 3/27 | --  | 35.0 | --   | --    |
| Mountain Meadows       | 15D6  | 6300 | 3/27 | 74  | 26.1 | 19.8 | --    |
| Mountain Meadows (A)   | 15D6  | 6300 | 4/3  | 65  | 23.4 | --   | --    |
| #Nez Perce Pass Mont.  | 14D1  | 6570 | 3/31 | 52  | 19.4 | 13.1 | 18.3  |
| Orogrande Mountain     | 15D4  | 7800 | 4/2  | 116 | 41.2 | 34.5 | --    |
| Orogrande Mountain (R) | 15D4  | 7800 | 4/1  | --  | 41.7 | --   | --    |
| Pierce Rgr. Sta.       | 15C5  | 3170 | 3/28 | 29  | 9.6  | 13.1 | 11.0* |
| Powell Rgr. Sta.       | 14C6  | 4230 | 3/27 | 37  | 13.4 | 12.7 | 13.8* |
| Sable Hill (A)         | 15D20 | 6000 | 4/3  | 60  | 21.6 | --   | --    |
| Savage Pass            | 14C4  | 6600 | 3/27 | 85  | 32.0 | 25.9 | 30.5* |
| Shanghai Summit        | 15C4  | 4600 | 4/1  | 79  | 32.2 | 21.6 | 31.6  |
| Sweeney                | 16C10 | 4435 | 3/27 | 18  | 6.0  | 11.0 | --    |

(b) 1948-62, 15 year period. \* Not located directly on this drainage. \* Estimated 1948-62, 15 year Average. (A) Aerial observation; Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.



## SNOW

| DRAINAGE BASIN and SNOW COURSE |     |           | CURRENT INFORMATION |                     |                        | PAST RECORD            |                      |
|--------------------------------|-----|-----------|---------------------|---------------------|------------------------|------------------------|----------------------|
| NAME                           | NO. | ELEVATION | DATE OF SURVEY      | SNOW DEPTH (Inches) | WATER CONTENT (Inches) | WATER CONTENT (Inches) |                      |
|                                |     |           |                     |                     |                        | LAST YEAR -            | AVERAGE <sup>b</sup> |

SALMON RIVER

|                       |       |       |      |     |      |      |       |
|-----------------------|-------|-------|------|-----|------|------|-------|
| Big Creek Summit      | 15E2  | 6600  | 3/30 | 113 | 39.3 | 30.6 | 38.5  |
| Borah (A)             | 13E8  | 8250  | 4/2  | 24  | 6.1  | 3.3  | --    |
| #Boulder Creek        | 16D1  | 5500  | 3/30 | 68  | 24.4 | 23.1 | 25.2  |
| Brundage Mountain     | 16D6  | 7600  | 3/28 | 146 | 56.5 | 43.2 | --    |
| Chapman Creek         | 16D2  | 4215  | 3/27 | 7   | 1.7  | 4.8  | 1.4*  |
| #Deadwood Summit (A)  | 15E4  | 7000  | 4/2  | 137 | 51.6 | 38.4 | 48.5  |
| Doublespring Pass (A) | 13E25 | 8400  | 4/2  | 42  | 15.0 | --   | --    |
| #Galena Summit        | 14F12 | 8795  | 3/31 | 75  | 25.1 | 18.3 | 24.3* |
| #Gibbons Pass Mont.   | 13D2  | 7100  | 3/28 | 64  | 26.2 | 15.4 | 25.0  |
| Johns Creek           | 16D3  | 3805  | 3/27 | 0   | 0.0  | 1.1  | 0.8*  |
| Leatherman Pass (A)   | 13E24 | 9800  | 4/2  | 85  | 30.1 | --   | --    |
| #Lemhi Pass Mont.     | 13E1  | 7480  | 3/30 | 36  | 9.4  | 5.6  | 9.2   |
| #Lemhi Ridge Mont.    | 13E23 | 8100  | 3/30 | 37  | 10.0 | --   | --    |
| Mill Creek Summit     | 14E1  | 8870  | 3/31 | 70  | 24.8 | 17.5 | 23.5* |
| Moose Creek           | 13D16 | 6200  | 3/31 | 50  | 18.4 | 10.4 | 17.1  |
| Morgan Creek          | 14E4  | 7580  | 3/29 | 48  | 15.6 | 10.2 | --    |
| Redfish Lake          | 14E2  | 6600  | 3/29 | 32  | 9.1  | 6.5  | --    |
| #Rock Flat Summit     | 16E1  | 5200  | 3/28 | 60  | 19.9 | 16.4 | 19.9  |
| #Secesh Summit        | 15D1  | 6600  | 3/31 | 114 | 42.1 | --   | --    |
| #Squaw Flat (A)       | 16E5  | 6230  | 4/2  | 84  | 29.2 | 29.4 | --    |
| #Squaw Meadow         | 15D2  | 5800  | 3/31 | 112 | 42.6 | 34.7 | 41.0  |
| Twin Peaks (A)        | 14E3  | 10300 | 4/2  | 87  | 30.8 | 22.3 | --    |
| Vienna Mine           | 14F4  | 8900  | 3/27 | 95  | 38.5 | 27.7 | 37.1* |
| Whitebird Summit      | 16D5  | 4390  | 3/27 | 16  | 5.2  | 7.4  | 6.4*  |
| Williams Creek Summit | 14D4  | 7800  | 3/31 | 48  | 13.4 | 8.3  | 14.9  |
| <u>Lemhi River</u>    |       |       |      |     |      |      |       |
| Above Gilmore         | 13E19 | 8200  | 3/28 | 36  | 9.5  | 7.5  | --    |
| Aspen Hall Pass       | 13E21 | 8110  | 3/27 | 39  | 11.0 | 7.2  | --    |
| Copes Camp            | 13E17 | 7500  | 3/27 | 32  | 8.4  | 6.5  | --    |
| Gertson Creek         | 13D17 | 8050  | 3/28 | 31  | 8.2  | 4.8  | --    |
| Hall Creek            | 13E20 | 7560  | 3/27 | 24  | 6.1  | 3.1  | --    |
| Meadow Lake           | 13E18 | 9100  | 3/27 | 59  | 20.2 | 12.5 | --    |
| Schwartz Lake         | 13E16 | 8500  | 3/27 | 44  | 12.6 | 8.6  | --    |

## SOIL MOISTURE

| STATION                 |           | PROFILE (Inches) |          | SOIL MOISTURE (Inches) |           |           |             |
|-------------------------|-----------|------------------|----------|------------------------|-----------|-----------|-------------|
| NAME                    | ELEVATION | DEPTH            | CAPACITY | DATE                   | THIS YEAR | LAST YEAR | 2 YEARS AGO |
| <u>SPOKANE RIVER</u>    |           |                  |          |                        |           |           |             |
| Fourth of July Summit   | 3100      | 48               | 11.6     | 3/30                   | 10.2      | 10.3      | 10.1        |
| Lookout                 | 5250      | 48               | 11.0     | 3/30                   | 8.2       | 8.1       | 8.7         |
| <u>CLEARWATER RIVER</u> |           |                  |          |                        |           |           |             |
| Brown                   | 3100      | 36               | 6.7      | 3/27                   | 5.6       | 5.6       | 5.6         |
| Fohl                    | 3450      | 48               | 13.3     | 3/27                   | 9.7       | 9.9       | 10.3        |
| <u>SALMON RIVER</u>     |           |                  |          |                        |           |           |             |
| Mill Creek Summit       | 8870      | 48               | 8.4      | 3/31                   | 3.0       | 4.8       | 2.9         |
| <u>Lemhi River</u>      |           |                  |          |                        |           |           |             |
| Above Gilmore           | 8200      | 60               | 5.4      | 3/27                   | 1.8       | 2.8       | 2.3         |
| Meadow Lake             | 9100      | 48               | 4.4      | 3/27                   | 1.6       | 1.9       | 2.0         |

(b) 1948-62, 15 year period. \* Not located directly on this drainage. \* Estimated 1948-62, 15 year Average. (A) Aerial observation: Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.

## SNOW

| DRAINAGE BASIN and SNOW COURSE |     |           | CURRENT INFORMATION |                     |                        | PAST RECORD            |                      |
|--------------------------------|-----|-----------|---------------------|---------------------|------------------------|------------------------|----------------------|
|                                |     |           | DATE OF SURVEY      | SNOW DEPTH (Inches) | WATER CONTENT (Inches) | WATER CONTENT (Inches) |                      |
| NAME                           | NO. | ELEVATION |                     |                     |                        | LAST YEAR              | AVERAGE <sup>b</sup> |

MIDDLE SNAKE RIVER BASIN - NORTHSIDELITTLE LOST RIVER

|                     |      |      |      |    |      |     |       |
|---------------------|------|------|------|----|------|-----|-------|
| Fairview Guard Sta. | 13E5 | 6750 | 3/30 | 14 | 3.8  | T   | 4.4*  |
| Lost Garfield       | 13E3 | 6600 | 3/30 | 9  | 1.9  | 0.0 | 2.7*  |
| Moonshine           | 13E6 | 7450 | 3/30 | 45 | 13.3 | 6.2 | 10.9* |
| Sawmill Canyon      | 13E4 | 6900 | 3/30 | 35 | 10.6 | 4.7 | 8.0*  |
| Wet Creek Summit    | 13E7 | 7600 | 3/28 | 55 | 19.6 | 9.5 | 11.2* |

BIG LOST RIVER

|                        |       |      |      |    |      |      |       |
|------------------------|-------|------|------|----|------|------|-------|
| Bear Canyon            | 13F3  | 8600 | 3/27 | 76 | 27.2 | 15.7 | 17.6* |
| Cherry Creek Pass (A)  | 13F13 | 8900 | 3/27 | 11 | 3.2  | 1.7  | --    |
| Copper Basin           | 13F2  | 8000 | 3/27 | 47 | 16.8 | 8.4  | 9.1   |
| #Doublespring Pass (A) | 13E25 | 8400 | 4/2  | 42 | 15.0 | --   | --    |
| Dry Fork (A)           | 13F20 | 7340 | 3/27 | 57 | 22.1 | --   | --    |
| Iron Bog               | 13F11 | 7650 | 3/27 | 53 | 20.5 | 11.6 | --    |
| Leadbelt               | 13F12 | 6800 | 3/27 | 41 | 13.6 | 7.6  | --    |
| #Leatherman Pass (A)   | 13E24 | 9800 | 4/2  | 85 | 30.1 | --   | --    |
| Lost-Wood Divide (A)   | 14F3  | 7900 | 3/27 | 76 | 28.1 | 20.0 | 24.3* |
| Mammoth Canyon (A)     | 13F17 | 8300 | 3/27 | 57 | 22.1 | --   | --    |
| North Fork Meadow (A)  | 14F15 | 8150 | 3/27 | 48 | 17.8 | 10.3 | --    |
| Sage Creek (A)         | 14E5  | 7800 | 4/2  | 37 | 11.7 | --   | --    |
| Slickrock (A)          | 13F14 | 8640 | 3/27 | 75 | 27.8 | 16.4 | --    |
| Stickney Mill          | 14F2  | 7500 | 3/27 | 41 | 12.9 | 9.1  | 9.1   |
| White Knob             | 13F1  | 7700 | 3/28 | 44 | 13.0 | 6.0  | 9.1*  |

FISH CREEK

|                 |       |      |      |    |      |     |       |
|-----------------|-------|------|------|----|------|-----|-------|
| #Dry Fork (A)   | 13F20 | 7340 | 3/27 | 57 | 22.1 | --  | --    |
| Iron Mine Creek | 13F10 | 6370 | 3/27 | 37 | 12.3 | 7.3 | 10.5* |
| Telfer Ranch    | 13F6  | 6000 | 3/27 | 23 | 8.2  | 7.0 | 5.8*  |

LITTLE WOOD RIVER

|                    |       |      |      |    |      |      |       |
|--------------------|-------|------|------|----|------|------|-------|
| #Bear Canyon       | 13F3  | 8600 | 3/27 | 76 | 27.2 | 15.7 | 17.6* |
| Garfield Rgr. Sta. | 13F4  | 6554 | 3/28 | 32 | 11.6 | 7.9  | 10.5* |
| Muldoon            | 13F5  | 6300 | 3/28 | 21 | 7.4  | 5.6  | 7.1*  |
| Porcupine (A)      | 14F14 | 8350 | 3/27 | 62 | 22.9 | 16.0 | --    |
| Swede Peak         | 13F9  | 7500 | 3/28 | 64 | 22.9 | 14.3 | 17.4* |

BIG WOOD RIVER

|                       |       |      |      |    |      |      |       |
|-----------------------|-------|------|------|----|------|------|-------|
| Camas Creeks Div. (A) | 15F9  | 5720 | 4/2  | 25 | 7.8  | 2.8  | --    |
| #Couch Summit         | 14F10 | 6950 | 3/30 | 60 | 21.7 | 14.9 | 20.0  |
| Dollarhide Summit (A) | 14F8  | 8620 | 3/27 | 71 | 26.8 | 16.3 | 27.4* |
| Galena                | 14F1  | 7300 | 3/31 | 65 | 22.3 | 14.6 | 19.5  |
| Galena Summit         | 14F12 | 8795 | 3/31 | 75 | 25.1 | 18.3 | 24.3* |

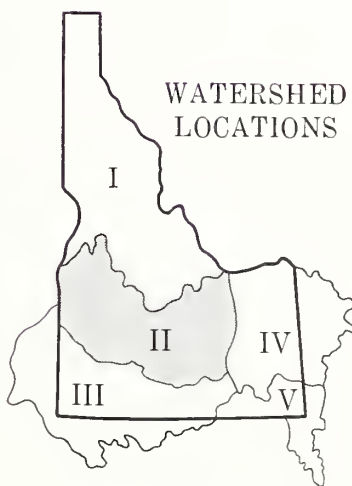
(b) 1948-62, 15 year period. \* Not located directly on this drainage. \* Estimated 1948-62, 15 year Average. (A) Aerial observation; Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.



# MIDDLE SNAKE RIVER BASIN NORTHSIDE



25 0 25 50 75  
SCALE IN MILES



## LEGEND

- Watershed Boundary
- Soil Conservation District Bdry
- County Boundary
- ▲ Forecast Point
- Snow Course
- † Aerial Snow Depth Gage
- Soil Moisture Station
- Snow Pressure
- Temperature Gage
- ⌒ Precipitation Gage
- ⚡ Radio Telemetry

# INDEX to SNOW COURSES

| NO. | STATE | NAME | SEC.<br>LAT. | TWP.<br>OR<br>AND | RGE.<br>LONG. | ELEV. |
|-----|-------|------|--------------|-------------------|---------------|-------|
|-----|-------|------|--------------|-------------------|---------------|-------|

## MIDDLE SNAKE RIVER BASIN NORTHSIDE

### LITTLE LOST RIVER

|         |   |                        |    |     |     |      |
|---------|---|------------------------|----|-----|-----|------|
| 13E5M   | I | Fairview Guard Station | 27 | 12N | 26E | 6750 |
| 13E3    | I | Lost-Garfield          | 3  | 11N | 26E | 6600 |
| 13E6    | I | Moonshine              | 31 | 13N | 26E | 7450 |
| 13E4    | I | Sawmill Canyon         | 17 | 12N | 26E | 6900 |
| 13E7MAP | I | Wet Creek Summit       | 15 | 8N  | 25E | 7600 |

### BIG LOST RIVER

|         |   |                     |    |    |     |      |
|---------|---|---------------------|----|----|-----|------|
| 13F18p  | I | Antelope Pass       | 7  | 5N | 23E | 8800 |
| 13F3    | I | Bear Canyon         | 26 | 5N | 21E | 8600 |
| 13F13a  | I | Cherry Creek Pass   | 7  | 5N | 23E | 8900 |
| 13F2A   | I | Copper Basin        | 24 | 6N | 21E | 8000 |
| 13F19p  | I | Corral Creek Summit | 25 | 7N | 22E | 8550 |
| 13F20ap | I | Dry Fork            | 23 | 3N | 23E | 7340 |
| 13F11   | I | Iron Bog            | 23 | 4N | 22E | 7650 |
| 13F12   | I | Leadbelt            | 34 | 4N | 23E | 6800 |
| 14F3A   | I | Lost Wood Divide    | 19 | 6N | 19E | 7900 |
| 13F17ap | I | Mammoth Canyon      | 14 | 6N | 23E | 8300 |
| 14F15a  | I | North Fork Meadows  | 20 | 7N | 18E | 8150 |
| 14F6p   | I | Park Creek          | 18 | 6N | 19E | 7685 |
| 14E5ap  | I | Sage Creek          | 12 | 9N | 20E | 7800 |
| 13F14ap | I | Slickrock           | 17 | 4N | 22E | 8640 |
| 14F2A   | I | Stickney Mill       | 9  | 6N | 19E | 7500 |
| 13F15a  | I | Twin Rocks          | 22 | 4N | 22E | 8100 |
| 13F1    | I | White Knobs         | 25 | 7N | 23E | 7700 |

### BIG WOOD RIVER

|         |   |                        |    |    |     |      |
|---------|---|------------------------|----|----|-----|------|
| 15F9a   | I | Camas Creek Divide     | 11 | 2S | 9E  | 5720 |
| 14F8AP  | I | Dollarhide Summit      | 16 | 3N | 15E | 8620 |
| 14F1M   | I | Galena                 | 3  | 6N | 15E | 7300 |
| 14F12MP | I | Galena Summit          | 33 | 7N | 15E | 8795 |
| 14F5    | I | Graham Ranch           | 10 | 5N | 17E | 6200 |
| 14F7    | I | Mascot Mine            | 8  | 4N | 20E | 7900 |
| 14F9    | I | Mount Baldy            | 26 | 4N | 17E | 9000 |
| 14F11   | I | Soldier Ranger Station | 19 | 2N | 14E | 6100 |

### LITTLE WOOD RIVER

|        |   |                         |    |    |     |      |
|--------|---|-------------------------|----|----|-----|------|
| 13F4M  | I | Garfield Ranger Station | 11 | 3N | 21E | 6554 |
| 13F5   | I | Muldoon                 | 25 | 3N | 21E | 6300 |
| 14F13m | I | Niggerhead              | 26 | 2N | 20E | 5450 |
| 14F14a | I | Porcupine               | 30 | 4N | 20E | 8350 |
| 13F9A  | I | Swede Peak              | 4  | 3N | 21E | 7500 |

### FISH CREEK

|       |   |                 |    |    |     |      |
|-------|---|-----------------|----|----|-----|------|
| 13F10 | I | Iron Mine Creek | 32 | 3N | 23E | 6370 |
| 13F6  | I | Telfer Ranch    | 12 | 2N | 22E | 6000 |

| NO. | STATE | NAME | SEC.<br>LAT. | TWP.<br>OR<br>AND | RGE.<br>LONG. | ELEV. |
|-----|-------|------|--------------|-------------------|---------------|-------|
|-----|-------|------|--------------|-------------------|---------------|-------|

### BOISE RIVER

|        |   |                      |    |    |     |      |
|--------|---|----------------------|----|----|-----|------|
| 15F4AP | I | Atlanta Summit       | 23 | 5N | 10E | 7500 |
| 15F2M  | I | Bad Bear             | 35 | 7N | 6E  | 5500 |
| 16F4   | I | Bogus Basin          | 32 | 5N | 3E  | 5360 |
| 16F5m  | I | Bogus Basin Road     | 36 | 5N | 2E  | 4830 |
| 14F10A | I | Couch Summit         | 9  | 2N | 14E | 6950 |
| 15F10a | I | Danskin              | 17 | 1N | 7E  | 5650 |
| 16F1   | I | Deadman Gulch        | 29 | 7N | 4E  | 5600 |
| 15E9AP | I | Jackson Peak         | 7  | 8N | 9E  | 7000 |
| 15F1MP | I | Moore's Creek Summit | 19 | 7N | 7E  | 6100 |
| 15F6P  | I | Prairie              | 13 | 2N | 7E  | 4900 |
| 15F3A  | I | Road Creek           | 5  | 5N | 8E  | 5550 |
| 15F5AP | I | Trinity Mountain     | 7  | 3N | 9E  | 7400 |
| 15F11a | I | Willow Creek Cabin   | 26 | 1N | 6E  | 4710 |

### CANYON CREEK

|        |   |                   |    |    |    |      |
|--------|---|-------------------|----|----|----|------|
| 15F7   | I | Bennett Mountain  | 7  | 2S | 9E | 6650 |
| 15F8   | I | Dixie Hill        | 13 | 2S | 8E | 5230 |
| 15F12a | I | Little Camas Flat | 21 | 1S | 9E | 4950 |
| 15F13a | I | Long Tom          | 19 | 1S | 8E | 4550 |

### PAYETTE RIVER

|        |   |                         |    |     |    |      |
|--------|---|-------------------------|----|-----|----|------|
| 16F2MP | I | Bogus Basin             | 16 | 5N  | 3E | 6120 |
| 15E8   | I | Cozy Cove               | 19 | 11N | 7E | 5900 |
| 15E3   | I | Crawford Ranger Station | 21 | 14N | 4E | 4800 |
| 15E10  | I | Deadwood Airstrip       | 8  | 11N | 7E | 5440 |
| 15E7   | I | Deadwood Dam            | 8  | 11N | 7E | 5290 |
| 15E4A  | I | Deadwood Summit         | 23 | 14N | 7E | 7000 |
| 16E7a  | I | Greenfield Flat         | 1  | 13N | 2E | 7370 |
| 16E4   | I | High Valley Summit      | 9  | 10N | 2E | 5170 |
| 15E1   | I | Lake Fork               | 3  | 18N | 4E | 6000 |
| 16E1   | I | Rock Flat Summit        | 1  | 18N | 2E | 5200 |
| 15E5A  | I | Silver Creek Ridge      | 24 | 12N | 5E | 5700 |
| 15D2A  | I | Squaw Meadows           | 5  | 21N | 4E | 5800 |
| 16E3   | I | Tripod Summit           | 17 | 11N | 3E | 5200 |

### WEISER RIVER

|       |   |               |         |     |    |      |
|-------|---|---------------|---------|-----|----|------|
| 16D1P | I | Boulder Creek | 15      | 20N | 1W | 5500 |
| 16E6a | I | Mica Ridge    | 15      | 15N | 2E | 6800 |
| 16E2  | I | Placer Creek  | 15 & 16 | 17N | 3W | 6000 |
| 16E5a | I | Squaw Flat    | 32      | 17N | 2E | 6230 |

## LEGEND

### Numbering System (example)

|        |  |
|--------|--|
| 10J7   | SNOW COURSE ONLY.  |
| 10J7P  | SNOW COURSE AND PRECIPITATION GAGE.                        |
| 10J7M  | SNOW COURSE AND SOIL MOISTURE STATION.                     |
| 10J7A  | SNOW COURSE AND AERIAL MARKER.                             |
| 10J7MA | SNOW COURSE, SOIL MOISTURE STATION AND AERIAL MARKER.      |
| 10J7MP | SNOW COURSE, SOIL MOISTURE STATION AND PRECIPITATION GAGE. |
| 10J7 m | SOIL MOISTURE STATION ONLY.                                |
| 10J7 a | AERIAL MARKER ONLY.  |
| 10J7 p | STORAGE PRECIPITATION GAGE ONLY.                           |

## SNOW

| DRAINAGE BASIN and SNOW COURSE |       |           | CURRENT INFORMATION |                     |                        | PAST RECORD            |                      |
|--------------------------------|-------|-----------|---------------------|---------------------|------------------------|------------------------|----------------------|
|                                |       |           | DATE OF SURVEY      | SNOW DEPTH (inches) | WATER CONTENT (inches) | WATER CONTENT (inches) |                      |
| NAME                           | NO.   | ELEVATION |                     |                     |                        | LAST YEAR              | AVERAGE <sup>b</sup> |
| Graham Ranch                   | 14F5  | 6200      | 3/31                | 51                  | 16.8                   | 11.5                   | 13.4                 |
| #Lost-Wood Divide (A)          | 14F3  | 7900      | 3/27                | 76                  | 28.1                   | 20.0                   | 24.3*                |
| Mascot Mine.                   | 14F7  | 7900      | 3/29                | 64                  | 19.8                   | 9.4                    | 15.7                 |
| Mount Baldy                    | 14F9  | 9000      | 3/30                | 79                  | 25.2                   | 15.3                   | 21.8*                |
| #Porcupine (A)                 | 14F14 | 8350      | 3/27                | 62                  | 22.9                   | 16.0                   | --                   |
| Soldier Rgr. Sta.              | 14F11 | 6100      | 3/30                | 25                  | 9.4                    | 8.7                    | 11.3                 |
| #Vienna Mine                   | 14F4  | 8900      | 3/27                | 95                  | 38.5                   | 27.7                   | 37.1*                |

## CANYON CREEK

|                         |       |      |      |    |      |     |    |
|-------------------------|-------|------|------|----|------|-----|----|
| Bennett Mountain        | 15F7  | 6650 | 3/28 | 48 | 16.4 | 9.2 | -- |
| #Camas Creeks Div. (A)  | 15F9  | 5720 | 4/2  | 25 | 7.8  | 2.8 | -- |
| #Danskin (A)            | 15F10 | 5650 | 4/2  | 29 | 9.1  | 3.1 | -- |
| Dixie Hill              | 15F8  | 5230 | 3/28 | 0  | 0.0  | T   | -- |
| Little Camas Flat (A)   | 15F12 | 4950 | 4/2  | 0  | 0.0  | 0.0 | -- |
| Long Tom (A)            | 15F13 | 4550 | 4/2  | 0  | 0.0  | 0.0 | -- |
| #Willow Creek Cabin (A) | 15F11 | 4710 | 4/2  | 0  | 0.0  | 0.0 | -- |

## BOISE RIVER

|                        |       |      |      |     |      |      |       |
|------------------------|-------|------|------|-----|------|------|-------|
| Atlanta Summit         | 15F4  | 7500 | 3/27 | 90  | 33.9 | 27.0 | 36.6  |
| Atlanta Summit (A)     | 15F4  | 7500 | 4/1  | 103 | 35.6 | --   | --    |
| Bad Bear               | 15F2  | 5500 | 3/29 | 31  | 9.7  | 9.8  | --    |
| #Bennett Mountain      | 15F7  | 6650 | 3/28 | 48  | 16.4 | 9.2  | --    |
| #Bogus Basin           | 16F2  | 6120 | 4/3  | 63  | 22.7 | 14.9 | 25.1  |
| #Bogus Basin (SP)      | 16F2  | 6120 | 4/3  | --  | 22.4 | --   | --    |
| Bogus Basin Road       | 16F4  | 5360 | 4/3  | 0   | 0.0  | 0.0  | 2.2*  |
| #Camas Creeks Div. (A) | 15F9  | 5720 | 4/2  | 25  | 7.8  | 2.8  | --    |
| Couch Summit           | 14F10 | 6950 | 3/30 | 60  | 21.7 | 14.9 | 20.0  |
| Danskin (A)            | 15F10 | 5650 | 4/2  | 29  | 9.1  | 3.1  | --    |
| Deadman Gulch          | 16F1  | 5600 | 3/29 | 43  | 13.3 | 11.5 | 17.4* |
| #Dixie Hill            | 15F8  | 5230 | 3/28 | 0   | 0.0  | T    | --    |
| #Dollarhide Summit (A) | 14F8  | 8620 | 3/27 | 71  | 26.8 | 16.3 | 27.4* |
| Jackson Peak (A)       | 15E9  | 7000 | 4/2  | 97  | 31.8 | 27.8 | 32.6* |
| #Little Camas Flat (A) | 15F12 | 4950 | 4/2  | 0   | 0.0  | 0.0  | --    |
| #Long Tom (A)          | 15F13 | 4550 | 4/2  | 0   | 0.0  | 0.0  | --    |
| Moore's Creek Summit   | 15F1  | 6100 | 3/29 | 90  | 31.8 | 25.6 | 34.0  |
| Prairie                | 15F6  | 4900 | 4/2  | 0   | 0.0  | T    | 4.8*  |
| Road Creek             | 15F3  | 5550 | 3/27 | 16  | 5.5  | 7.6  | 12.1* |
| #Shafer Butte          | 16F7  | 7480 | 4/3  | 79  | 31.5 | --   | --    |
| #Soldier Rgr. Sta.     | 14F11 | 6100 | 3/30 | 25  | 9.4  | 8.7  | 11.3  |
| Trinity Mountain       | 15F5  | 7400 | 3/27 | 102 | 42.7 | 36.1 | 46.2  |
| Trinity Mountain (A)   | 15F5  | 7400 | 4/2  | 118 | 45.8 | --   | --    |
| Trinity Mountain (SP)  | 15F5  | 7400 | 4/1  | --  | 48.2 | 33.7 | --    |
| #Vienna Mine           | 14F4  | 8900 | 3/27 | 95  | 38.5 | 27.7 | 37.1* |
| Willow Creek Cabin (A) | 15F11 | 4710 | 4/2  | 0   | 0.0  | 0.0  | --    |

(b) 1948-62, 15 year period. # Not located directly on this drainage. \* Estimated 1948-62, 15 year Average. (A) Aerial observation; Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.



## SNOW

| DRAINAGE BASIN and SNOW COURSE |     |           | CURRENT INFORMATION |                     |                        | PAST RECORD            |                      |
|--------------------------------|-----|-----------|---------------------|---------------------|------------------------|------------------------|----------------------|
|                                |     |           | DATE OF SURVEY      | SNOW DEPTH (Inches) | WATER CONTENT (Inches) | WATER CONTENT (Inches) |                      |
| NAME                           | NO. | ELEVATION |                     |                     |                        | LAST YEAR              | AVERAGE <sup>b</sup> |

PAYETTE RIVER

|                        |       |      |      |     |      |      |       |
|------------------------|-------|------|------|-----|------|------|-------|
| #Big Creek Summit      | 15E2  | 6600 | 3/30 | 113 | 39.3 | 30.6 | 38.5  |
| Bogus Basin            | 16F2  | 6120 | 4/3  | 63  | 22.7 | 14.9 | 25.1  |
| Bogus Basin (SP)       | 16F2  | 6120 | 4/3  | --  | 22.4 | --   | --    |
| #Brundage Mountain     | 16D6  | 7700 | 3/28 | 146 | 56.5 | 43.2 | --    |
| Cozy Cove              | 15E8  | 5900 | 3/27 | 45  | 16.4 | 14.9 | 17.2  |
| Crawford Rgr. Sta.     | 15E3  | 4800 | 3/30 | 19  | 6.4  | 5.9  | 6.9*  |
| #Deadman Gulch         | 16F1  | 5600 | 3/29 | 43  | 13.3 | 11.5 | 17.4* |
| Deadwood Airstrip      | 15E10 | 5440 | 3/27 | 41  | 14.8 | 15.3 | 16.1* |
| Deadwood Dam           | 15E7  | 5290 | 3/27 | 49  | 17.8 | 16.4 | 19.1  |
| Deadwood Summit (A)    | 15E4  | 7000 | 4/2  | 137 | 51.6 | 38.4 | 48.5  |
| Greenfield Flat (A)    | 16E7  | 7370 | 4/2  | 127 | 44.2 | 35.1 | --    |
| High Valley Summit     | 16E4  | 5170 | 3/28 | 32  | 10.2 | 9.1  | --    |
| #Jackson Peak (A)      | 15E9  | 7000 | 4/2  | 97  | 31.8 | 27.8 | 32.6* |
| Lake Fork              | 15E1  | 6000 | 3/28 | 58  | 18.1 | 13.4 | 17.3  |
| #Mica Ridge (A)        | 16E6  | 6800 | 4/2  | 92  | 32.0 | 31.8 | --    |
| Rock Flat Summit       | 16E1  | 5200 | 3/28 | 60  | 19.9 | 16.4 | 19.9  |
| Secesh Summit          | 15D1  | 6600 | 3/31 | 114 | 42.1 | --   | --    |
| Shafer Butte           | 16F7  | 7480 | 4/3  | 79  | 31.5 | --   | --    |
| Silver Creek Ridge (A) | 15E5  | 5700 | 4/2  | 48  | 16.0 | 14.5 | --    |
| #Squaw Flat (A)        | 16E5  | 6230 | 4/2  | 84  | 29.2 | 29.4 | --    |
| Squaw Meadow           | 15D2  | 5800 | 3/31 | 112 | 42.6 | 34.7 | 41.0  |
| Tripod Summit          | 16E3  | 5200 | 4/2  | 53  | 16.8 | 12.5 | --    |

WEISER RIVER

|                |      |      |      |    |      |      |      |
|----------------|------|------|------|----|------|------|------|
| Boulder Creek  | 16D1 | 5500 | 3/30 | 68 | 24.4 | 23.1 | 25.2 |
| Mica Ridge (A) | 16E6 | 6800 | 4/2  | 92 | 32.0 | 31.8 | --   |
| Placer Creek   | 16E2 | 6000 | 3/29 | 62 | 18.6 | 14.6 | 19.2 |
| Squaw Flat (A) | 16E5 | 6230 | 4/2  | 84 | 29.2 | 29.4 | --   |

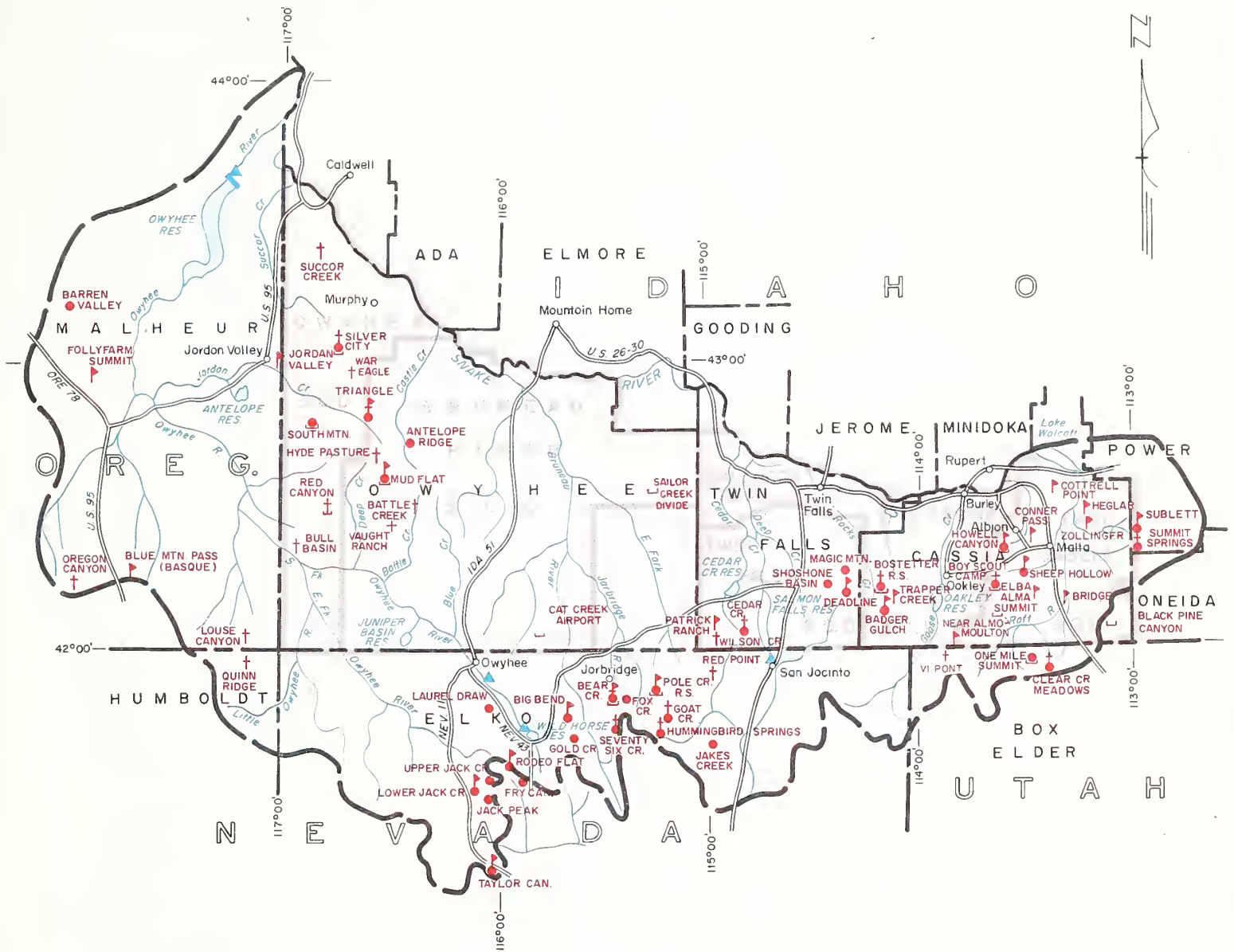
## SOIL MOISTURE

| STATION                  |           | PROFILE (Inches) |          | SOIL MOISTURE (Inches) |           |           |             |
|--------------------------|-----------|------------------|----------|------------------------|-----------|-----------|-------------|
|                          |           | DEPTH            | CAPACITY | DATE                   | THIS YEAR | LAST YEAR | 2 YEARS AGO |
| NAME                     | ELEVATION |                  |          |                        |           |           |             |
| <u>LITTLE WOOD RIVER</u> |           |                  |          |                        |           |           |             |
| Garfield R. S.           | 6554      | 36               | 5.2      | 3/28                   | 4.2       | 4.2       | 4.6         |
| <u>BIG WOOD RIVER</u>    |           |                  |          |                        |           |           |             |
| Galena                   | 7300      | 48               | 10.1     | 3/31                   | 6.1       | 6.7       | --          |
| Galena Summit            | 8795      | 48               | 5.8      | 3/31                   | 1.5       | 1.8       | 1.5         |
| <u>BOISE RIVER</u>       |           |                  |          |                        |           |           |             |
| Bogus Basin Road         | 4830      | 48               | 7.1      | 4/3                    | 5.7       | 5.6       | 6.0         |
| Moore's Creek Summit     | 6100      | 60               | 8.8      | 3/29                   | 7.5       | 7.5       | --          |

(b) 1948-62, 15 year period. \* Not located directly on this drainage. \* Estimated 1948-62, 15 year Average. (A) Aerial observation; Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.

# MIDDLE SNAKE RIVER BASIN SOUTHSIDE

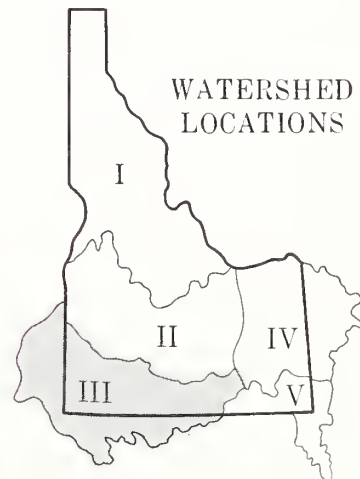
25 0 25 50 75  
SCALE IN MILES



## LEGEND

- Watershed Boundary
- Soil Conservation District Bdry
- County Boundary
- ▲ Forecast Point
- Snow Course
- † Aerial Snow Depth Gage
- ▤ Soil Moisture Station
- q Temperature Gage
- L Precipitation Gage
- ⚡ Radio Telemetry

## WATERSHED LOCATIONS



# INDEX to SNOW COURSES

| NO. | STATE | NAME | SEC. | TWP.      | RGE.  | ELEV. |
|-----|-------|------|------|-----------|-------|-------|
|     |       |      | LAT. | OR<br>AND | LONG. |       |

## MIDDLE SNAKE RIVER BASIN SOUTHSIDE

### RAFT RIVER

|        |   |                     |    |     |     |      |
|--------|---|---------------------|----|-----|-----|------|
| 13G15p | I | Black Pine Canyon   | 28 | 15S | 29E | 7100 |
| 13G2AP | I | Boy Scout Camp      | 8  | 14S | 24E | 7600 |
| 13H2A  | U | Clear Creek Meadows | 26 | 14N | 14W | 9050 |
| 13G6m  | I | Conner Pass         | 35 | 12S | 25E | 5700 |
| 13G7m  | I | Cottrell Point      | 24 | 10S | 25E | 4490 |
| 13G10m | I | Elba-Almo Summit    | 29 | 14S | 25E | 5690 |
| 13G8m  | I | Helgar              | 19 | 11S | 28E | 4590 |
| 13G1MP | I | Howell Canyon       | 2  | 13S | 24E | 8000 |
| 13G12m | I | Moulton             | 27 | 16S | 23E | 5950 |
| 13G14p | I | Near Almo           | 35 | 15S | 24E | 5200 |
| 13H1P  | U | One Mile Summit     | 19 | 14N | 14W | 7330 |
| 13G5M  | I | Sheep Hollow        | 4  | 14S | 24E | 6200 |
| 13G3M  | I | Sublett             | 8  | 12S | 30E | 6000 |
| 13G4A  | I | Summit Springs      | 15 | 13S | 30E | 6400 |
| 13G9m  | I | Zollinger           | 2  | 13S | 28E | 5000 |

### GOOSE - TRAPPER CREEK

|        |   |                          |    |     |     |      |
|--------|---|--------------------------|----|-----|-----|------|
| 14G3M  | I | Badger Gulch             | 24 | 15S | 19E | 6660 |
| 14G1AP | I | Bostetter Ranger Station | 35 | 14S | 19E | 7500 |
| 14G7m  | I | Trapper Creek            | 2  | 15S | 20E | 5300 |
| 13H3a  | U | Vi Pont                  | 17 | 14N | 17W | 7670 |

### SALMON FALLS CREEK

|        |   |                |    |     |     |      |
|--------|---|----------------|----|-----|-----|------|
| 14G5A  | I | Cedar Creek    | 25 | 15S | 13E | 7000 |
| 14G4M  | I | Deadline       | 25 | 14S | 18E | 6900 |
| 15H13A | N | Goat Creek     | 31 | 46N | 60E | 8800 |
| 14H1   | N | Jakes Creek    | 6  | 42N | 62E | 7000 |
| 14G2   | I | Magic Mountain | 14 | 14S | 18E | 6700 |
| 15G1m  | I | Patrick Ranch  | 23 | 15S | 12E | 5720 |
| 15H18a | N | Red Point      | 15 | 47N | 61E | 7940 |
| 14G6   | I | Shoshone Basin | 24 | 14S | 17E | 5740 |
| 15G2a  | I | Wilson Creek   | 24 | 16S | 12E | 7500 |

| NO. | STATE | NAME | SEC. | TWP.      | RGE.  | ELEV. |
|-----|-------|------|------|-----------|-------|-------|
|     |       |      | LAT. | OR<br>AND | LONG. |       |

### BRUNEAU RIVER

|         |   |                           |    |     |     |      |
|---------|---|---------------------------|----|-----|-----|------|
| 15H1MAP | N | Bear Creek                | 31 | 46N | 58E | 7800 |
| 15G3p   | I | Cat Creek Airport         | 9  | 16S | 6E  | 5700 |
| 15H2    | N | Fox Creek                 | 33 | 46N | 58E | 6800 |
| 15H15A  | N | Hummingbird Springs       | 6  | 45N | 60E | 8945 |
| 15H14MP | N | Pole Creek Ranger Station | 13 | 46N | 59E | 8330 |
| 15G4p   | I | Sailor Creek Divide       | 21 | 10S | 10E | 4350 |

### OWYHEE RIVER

|         |   |                             |                     |     |     |      |
|---------|---|-----------------------------|---------------------|-----|-----|------|
| 16G6    | I | Antelope Ridge              | 20                  | 8S  | 1E  | 5900 |
| 18F5    | O | Barren Valley               | 26                  | 17S | 38E | 4200 |
| 16G9a   | I | Battle Creek                | 10                  | 11S | 1E  | 5700 |
| 15H4M   | N | Big Bend                    | 30                  | 45N | 56E | 6700 |
| 17G2m   | O | Blue Mountain Pass (Basque) | 4                   | 38S | 42E | 5290 |
| 16G10a  | I | Bull Basin                  | 19                  | 12S | 5W  | 5600 |
| 18G3m   | O | Folly Farm Summit           | 8                   | 30S | 38E | 4450 |
| 15H7    | N | Fry Canyon                  | 31                  | 43N | 54E | 6700 |
| 15H5    | N | Gold Creek                  | 31                  | 45N | 56E | 6600 |
| 16G5a   | I | Hyde Pasture                | SE $\frac{1}{4}$ 31 | 8S  | 2W  | 5800 |
| 16H4    | N | Jacks Peak                  | 28                  | 42N | 53E | 8420 |
| 17G3m   | O | Jordan Valley               | 2                   | 30S | 46E | 4390 |
| 16H5    | N | Laurel Draw                 | 20                  | 45N | 53E | 6700 |
| 17G4a   | O | Louse Canyon                | 27                  | 40S | 44E | 6440 |
| 16H1M   | N | Lower Jack Creek            | 18                  | 42N | 53E | 6800 |
| 16G7MP  | I | Mud Flat                    | 34                  | 9S  | 2W  | 5500 |
| 17G5a   | O | Oregon Canyon               | 9                   | 40S | 40E | 6950 |
| 17H6a   | N | Quinn Ridge                 | 9                   | 47N | 41E | 6300 |
| 16G11ap | I | Red Canyon                  | 32                  | 11S | 4W  | 6650 |
| 15H6M   | N | Rodeo Flat                  | 36                  | 43N | 53E | 6800 |
| 16F3AP  | I | Silver City                 | 6                   | 5S  | 3W  | 6400 |
| 16G1P   | I | South Mountain              | 35                  | 7S  | 5W  | 6340 |
| 16F6a   | I | Succor Creek                | 25                  | 3S  | 5W  | 6100 |
| 15H9M   | N | Taylor Canyon               | 35                  | 39N | 53E | 6200 |
| 16G4MA  | I | Triangle                    | N $\frac{1}{2}$ 35  | 7S  | 3W  | 5150 |
| 16H2    | N | Upper Creek                 | 9                   | 42N | 53E | 7250 |
| 16G12a  | I | Vaught Ranch                | 10                  | 11S | 1W  | 5950 |
| 16G13a  | I | War Eagle                   | 20                  | 5S  | 3W  | 7700 |

## LEGEND

### Numbering System (example)

|        |  |
|--------|--|
| 10J7   | SNOW COURSE ONLY.  |
| 10J7P  | SNOW COURSE AND PRECIPITATION GAGE.                        |
| 10J7M  | SNOW COURSE AND SOIL MOISTURE STATION.                     |
| 10J7A  | SNOW COURSE AND AERIAL MARKER.                             |
| 10J7MA | SNOW COURSE, SOIL MOISTURE STATION AND AERIAL MARKER.      |
| 10J7MP | SNOW COURSE, SOIL MOISTURE STATION AND PRECIPITATION GAGE. |
| 10J7 m | SOIL MOISTURE STATION ONLY.                                |
| 10J7 a | AERIAL MARKER ONLY.  |
| 10J7 p | STORAGE PRECIPITATION GAGE ONLY.                           |



## SNOW

| DRAINAGE BASIN and SNOW COURSE |     |           | CURRENT INFORMATION |                     |                        | PAST RECORD            |                      |
|--------------------------------|-----|-----------|---------------------|---------------------|------------------------|------------------------|----------------------|
|                                |     |           | DATE OF SURVEY      | SNOW DEPTH (Inches) | WATER CONTENT (Inches) | WATER CONTENT (Inches) |                      |
| NAME                           | NO. | ELEVATION |                     |                     |                        | LAST YEAR              | AVERAGE <sup>b</sup> |

MIDDLE SNAKE RIVER BASIN - SOUTHSIDERAFT RIVER

|                     |      |      |      |    |      |      |       |
|---------------------|------|------|------|----|------|------|-------|
| Boy Scout Camp      | 13G2 | 7600 | 4/2  | 38 | 12.7 | 12.8 | 16.9* |
| Clear Creek Meadows | 13H2 | 9050 | 4/2  | 72 | 21.4 | 18.4 | --    |
| Howell Canyon       | 13G1 | 8000 | 3/25 | 54 | 21.3 | 16.9 | 27.6* |
| One Mile Summit     | 13H1 | 7330 | 4/2  | 26 | 6.5  | 7.5  | --    |
| Sheep Hollow        | 13G5 | 6200 | 4/2  | T  | T    | 3.8  | --    |
| Sublett             | 12G8 | 6000 | 4/2  | 24 | 8.2  | 7.7  | 11.4  |
| Summit Springs      | 12G9 | 6400 | 4/2  | 26 | 8.6  | 5.8  | 9.6*  |

GOOSE CREEK

|                     |      |      |      |    |      |      |      |
|---------------------|------|------|------|----|------|------|------|
| Badger Gulch        | 14G3 | 6660 | 3/31 | 28 | 9.7  | 8.4  | 14.3 |
| Bostetter Rgr. Sta. | 14G1 | 7500 | 3/31 | 49 | 16.3 | 12.8 | 21.0 |

SALMON FALLS CREEK

|                      |       |      |      |    |      |      |       |
|----------------------|-------|------|------|----|------|------|-------|
| #Bear Creek          | 15H1  | 7800 | 3/30 | 62 | 20.1 | 16.5 | 21.0  |
| Cedar Creek          | 14G5  | 7000 | 3/30 | 27 | 8.1  | 6.8  | 11.9* |
| Deadline             | 14G4  | 6900 | 3/30 | 53 | 17.6 | 15.4 | 24.4* |
| Goat Creek           | 15H13 | 8800 | 3/30 | 55 | 17.3 | 13.9 | 19.5* |
| #Hummingbird Springs | 15H15 | 8945 | 3/30 | 68 | 22.3 | 17.2 | 23.0* |
| Magic Mountain       | 14G2  | 6700 | 3/27 | 39 | 13.2 | 11.7 | 19.9  |
| #Pole Creek R. S.    | 15H14 | 8330 | 3/30 | 60 | 19.8 | 16.5 | 20.2* |
| Red Point            | 15H18 | 7940 | 3/30 | 32 | 11.1 | 0.0  | --    |
| Shoshone Basin       | 14G6  | 5740 | 3/29 | 3  | 0.0  | **   | 3.3*  |
| Wilson Creek         | 15G2  | 7500 | 3/30 | 43 | 14.5 | 8.1  | --    |

BRUNEAU RIVER

|                        |       |      |      |    |      |      |       |
|------------------------|-------|------|------|----|------|------|-------|
| Bear Creek             | 15H1  | 7800 | 3/30 | 62 | 20.1 | 16.5 | 21.0  |
| Hummingbird Springs    | 15H15 | 8945 | 3/30 | 68 | 22.3 | 17.2 | 23.0* |
| Pole Creek Rgr. Sta.   | 15H14 | 8330 | 3/30 | 60 | 19.8 | 16.5 | 20.2* |
| #Seventy-six Creek (A) | 15H3  | 7100 | 4/1  | 21 | 6.9  | 7.3  | 14.5* |

OWYHEE RIVER

|                  |       |      |      |         |      |      |      |
|------------------|-------|------|------|---------|------|------|------|
| Antelope Ridge   | 16G6  | 5900 | 3/28 | 16      | 4.9  | 0.0  | --   |
| Battle Creek (A) | 16G9  | 5700 |      | Delayed |      | 0.0  | --   |
| #Bear Creek      | 15H1  | 7800 | 3/30 | 62      | 20.1 | 16.5 | 21.0 |
| Bull Basin (A)   | 16G10 | 5600 |      | Delayed |      | 0.0  | --   |
| Hyde Pasture     | 16G5  | 5800 |      | Delayed |      | 0.0  | --   |
| Mud Flat         | 16G7  | 5500 | 3/28 | 10      | 3.1  | 1.4  | 4.5* |

\*\* Flooded

(b) 1948-62, 15 year period. \* Not located directly on this drainage. \* Estimated 1948-62, 15 year Average. (A) Aerial observation; Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.

## SNOW

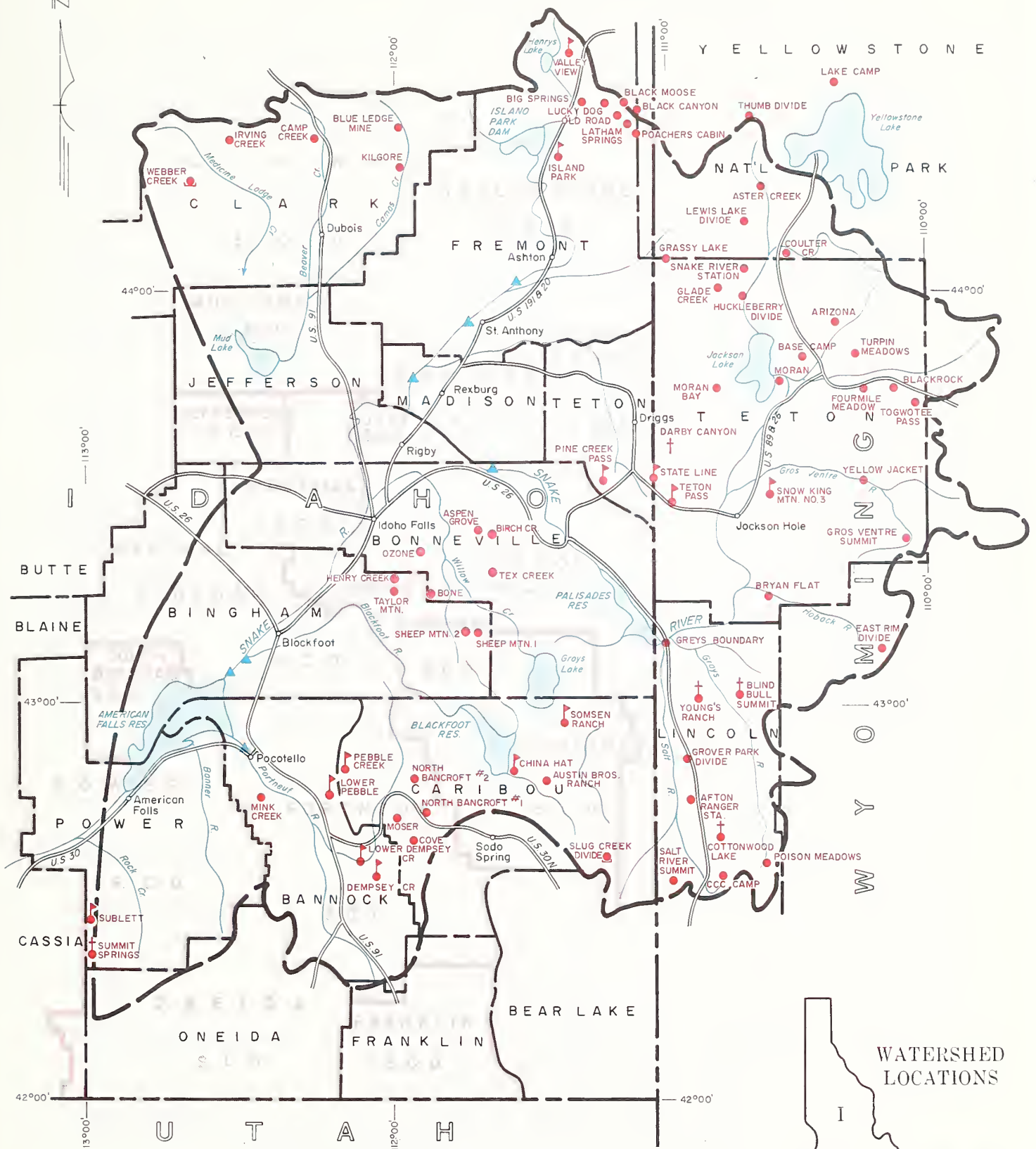
| DRAINAGE BASIN and SNOW COURSE |       |           | CURRENT INFORMATION |                     |                        | PAST RECORD            |                      |
|--------------------------------|-------|-----------|---------------------|---------------------|------------------------|------------------------|----------------------|
|                                |       |           | DATE OF SURVEY      | SNOW DEPTH (Inches) | WATER CONTENT (Inches) | WATER CONTENT (Inches) |                      |
| NAME                           | NO.   | ELEVATION |                     |                     |                        | LAST YEAR              | AVERAGE <sup>b</sup> |
| Red Canyon (A)                 | 16G11 | 6650      |                     | Delayed             |                        | 0.7                    | --                   |
| #Seventy-six Creek (A)         | 15H3  | 7100      | 4/1                 | 21                  | 6.9                    | 7.3                    | 14.5*                |
| Silver City                    | 16F3  | 6400      | 3/28                | 39                  | 14.6                   | 10.9                   | 16.3*                |
| South Mountain                 | 16G1  | 6340      | 3/29                | 33                  | 10.5                   | 4.9                    | 13.2*                |
| Succor Creek (A)               | 16F6  | 6100      |                     | Delayed             |                        | 0.7                    | --                   |
| Triangle                       | 16G4  | 5150      |                     | Delayed             |                        | 0.0                    | --                   |
| Vaught Ranch (A)               | 16G12 | 5950      |                     | Delayed             |                        | 0.0                    | --                   |
| War Eagle (A)                  | 16G13 | 7700      |                     | Delayed             |                        | 15.0                   | --                   |

## SOIL MOISTURE

| STATION                   |           | PROFILE (Inches) |          | SOIL MOISTURE (Inches) |           |           |             |
|---------------------------|-----------|------------------|----------|------------------------|-----------|-----------|-------------|
|                           |           | DEPTH            | CAPACITY | DATE                   | THIS YEAR | LAST YEAR | 2 YEARS AGO |
| NAME                      | ELEVATION |                  |          |                        |           |           |             |
| <u>RAFT RIVER</u>         |           |                  |          |                        |           |           |             |
| Conner Pass               | 5700      | 36               | 9.8      | 4/4                    | 7.6       | 9.1       | --          |
| Howell Canyon             | 8000      | 48               | 11.5     | 3/25                   | 4.8       | 8.5       | 5.5         |
| Sublett                   | 6000      | 36               | 7.0      | 4/2                    | 6.0       | 6.5       | 7.5         |
| <u>GOOSE CREEK</u>        |           |                  |          |                        |           |           |             |
| Badger Gulch              | 6660      | 36               | 7.0      | 3/31                   | 5.6       | 5.5       | 6.9         |
| Trapper Creek             | 5300      | 36               | 10.0     | 3/31                   | 4.7       | 7.6       | 8.1         |
| <u>SALMON FALLS CREEK</u> |           |                  |          |                        |           |           |             |
| Deadline                  | 6900      | 36               | 7.4      | 3/30                   | 6.5       | 6.7       | 7.9         |
| Patrick Ranch             | 5720      | 36               | 7.7      | 3/30                   | 6.0       | 4.7       | --          |
| Pole Creek R. S.          | 8330      | 48               | 12.7     | 3/30                   | 6.7       | --        | 8.0         |
| <u>BRUNEAU RIVER</u>      |           |                  |          |                        |           |           |             |
| Bear Creek                | 7800      | 72               | 16.9     | 3/30                   | 10.1      | 12.1      | 14.4        |
| <u>OWYHEE RIVER</u>       |           |                  |          |                        |           |           |             |
| Mud Flat                  | 5500      | 48               | 12.8     | 3/28                   | 14.4      | 14.4      | 14.1        |

(b) 1948-62, 15 year period. # Not located directly on this drainage. \* Estimated 1948-62, 15 year Average. (A) Aerial observation; Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.

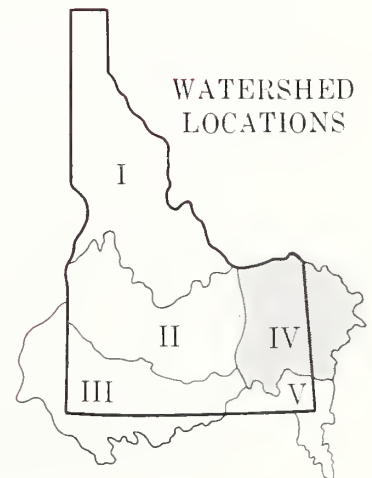
# UPPER SNAKE RIVER BASIN



## LEGEND

- Watershed Boundary
- Soil Conservation District Bdry
- County Boundary
- ▲ Forecast Point
- Snow Course
- † Aerial Snow Depth Gage
- P Soil Moisture Station
- O Snow Pressure Pillow
- q Temperature Gage
- ⊥ Precipitation Gage
- ⚡ Radio Telemetry

## WATERSHED LOCATIONS





# INDEX to SNOW COURSES

| NO.                     | STATE | NAME                  | SEC.    | TWP.      | RGE.     | ELEV. |
|-------------------------|-------|-----------------------|---------|-----------|----------|-------|
|                         |       |                       | LAT.    | OR<br>ANO | LONG.    |       |
| UPPER SNAKE RIVER BASIN |       |                       |         |           |          |       |
| SNAKE RIVER - WYOMING   |       |                       |         |           |          |       |
| 10G4                    | Wy    | Afton Ranger Station  | 30      | 32N       | 118W     | 6200  |
| 10F1                    | Wy    | Arizona               | 3       | 46N       | 115W     | 6850  |
| 10E8                    | Wy    | Aster Creek           | 44° 17' |           | 110° 38' | 7700  |
| 10F2                    | Wy    | Base Camp             | 20      | 46N       | 113W     | 6900  |
| 10F7                    | Wy    | Blackrock             | 4       | 44N       | 111W     | 8600  |
| 10G2A                   | Wy    | Blind Bull            | 6       | 34N       | 115W     | 8750  |
| 10F14                   | Wy    | Bryan Flat            | 9       | 38N       | 115W     | 6250  |
| 10E3                    | Wy    | Canyon                | 44° 44' |           | 110° 30' | 7750  |
| 10G7                    | Wy    | CCC Camp              | 9       | 29N       | 118W     | 7500  |
| 10G5A                   | Wy    | Cottonwood Lake       | 25      | 31N       | 118W     | 7500  |
| 10E10                   | Wy    | Coulter Creek         | 44° 09' |           | 110° 33' | 7600  |
| 10F17                   | Wy    | East Rim Divide       | 32      | 37N       | 111W     | 7950  |
| 10F6                    | Wy    | Four Mile Meadows     | 35      | 45N       | 112W     | 7770  |
| 10E13                   | Wy    | Glade Creek           | 12      | 48N       | 116W     | 7200  |
| 10F18                   | Wy    | Greys Boundary        | 33      | 37N       | 118W     | 5800  |
| 10F19                   | Wy    | Gros Ventre Summit    | 36      | 40N       | 111W     | 8750  |
| 10G3                    | Wy    | Grover Park Divide    | 27      | 33N       | 118W     | 7500  |
| 10E14                   | Wy    | Huckleberry Divide    | 32      | 48N       | 115W     | 7300  |
| 10E4                    | Wy    | Lake Camp             | 44° 43' |           | 110° 24' | 7850  |
| 10E9                    | Wy    | Lewis Lake Divide     | 44° 13' |           | 110° 40' | 7900  |
| 10F4                    | Wy    | Moran                 | 8 & 17  | 45N       | 114W     | 6800  |
| 10F3                    | Wy    | Moran Bay             | 14      | 45N       | 116W     | 6800  |
| 10E2                    | Wy    | Norris Basin          | 44° 44' |           | 110° 42' | 7500  |
| 10G6                    | Wy    | Poison Meadows        | 29      | 30N       | 116W     | 8500  |
| 10G8                    | Wy    | Salt River Summit     | 32      | 29N       | 118W     | 7900  |
| 10E12                   | Wy    | Snake River Station   | 9       | 48N       | 115W     | 6780  |
| 10F20                   | Wy    | Snow King Mountain #3 | 4       | 40N       | 117W     | 7600  |
| 10E5                    | Wy    | Sylvan Pass           | 12      | 52N       | 110W     | 7100  |
| 10E7                    | Wy    | Thumb Divide          | 44° 22' |           | 110° 35' | 7900  |
| 10F9                    | Wy    | Togwotee Pass         | 29      | 44N       | 110W     | 9600  |
| 10F5                    | Wy    | Turpin Meadows        | 14      | 45N       | 112W     | 6930  |
| 10G1A                   | Wy    | Young's Ranch         | 26      | 34N       | 116W     | 6530  |

|                   |    |                 |    |     |      |      |
|-------------------|----|-----------------|----|-----|------|------|
| HENRYS FORK RIVER |    |                 |    |     |      |      |
| 11E9              | I  | Big Springs     | 34 | 14N | 44E  | 6500 |
| 11E18             | I  | Black Canyon    | 11 | 13N | 45E  | 7850 |
| 11E19             | I  | Black Moose     | 33 | 14N | 45E  | 8125 |
| 10E15             | Wy | Grassy Lake     | 6  | 48N | 117W | 7230 |
| 11E10M            | I  | Island Park     | 29 | 13N | 43E  | 6315 |
| 11E16             | I  | Latham Springs  | 9  | 13N | 45E  | 7650 |
| 11E14             | I  | Lucky Dog       | 2  | 13N | 45E  | 6900 |
| 11E15             | I  | Old Road        | 12 | 13N | 44E  | 7250 |
| 11E17             | I  | Poacher's Cabin | 11 | 13N | 45E  | 8000 |
| 11E8M             | I  | Valley View     | 7  | 15N | 44E  | 6500 |

| NO.         | STATE | NAME            | SEC. | TWP.      | RGE.  | ELEV. |
|-------------|-------|-----------------|------|-----------|-------|-------|
|             |       |                 | LAT. | OR<br>ANO | LONG. |       |
| TETON RIVER |       |                 |      |           |       |       |
| 10F21a      | Wy    | Darby Canyon    | 28   | 43N       | 118W  | 8250  |
| 11F2M       | I     | Pine Creek Pass | 24   | 3N        | 44E   | 6750  |
| 11F1M       | I     | State Line      | 32   | 3N        | 46E   | 6400  |
| 10F13M      | Wy    | Teton Pass      | 24   | 41N       | 118W  | 8500  |

|                      |   |                 |    |     |     |      |
|----------------------|---|-----------------|----|-----|-----|------|
| CAMAS - BEAVER CREEK |   |                 |    |     |     |      |
| 11E11                | I | Blue Ledge Mine | 27 | 13N | 38E | 6700 |
| 12E3                 | I | Camp Creek      | 21 | 33N | 36E | 6800 |
| 11E12                | I | Kilgore         | 6  | 12N | 39E | 6200 |

|                      |   |              |    |     |     |      |
|----------------------|---|--------------|----|-----|-----|------|
| MEDICINE LODGE CREEK |   |              |    |     |     |      |
| 12E4                 | I | Irving Creek | 20 | 13N | 33E | 7035 |
| 12E5                 | I | Webber Creek | 23 | 12N | 32E | 6700 |

|              |   |                   |    |    |     |      |
|--------------|---|-------------------|----|----|-----|------|
| WILLOW CREEK |   |                   |    |    |     |      |
| 11F10        | I | Aspen Grove       | 35 | 2N | 41E | 6600 |
| 11F3         | I | Birch Creek       | 36 | 2N | 41E | 6800 |
| 11F8         | I | Bone              | 29 | 1S | 40E | 6200 |
| 11F4         | I | Ozone             | 14 | 1N | 39E | 5800 |
| 11F9         | I | Sheep Mountain I  | 33 | 2S | 41E | 6450 |
| 11F11        | I | Sheep Mountain II | 33 | 2S | 41E | 6510 |
| 11F5         | I | Tex Creek         | 6  | 1S | 42E | 6700 |

|            |   |                 |    |    |     |      |
|------------|---|-----------------|----|----|-----|------|
| SAND CREEK |   |                 |    |    |     |      |
| 11F6       | I | Henry Creek     | 7  | 1S | 39E | 5650 |
| 11F7       | I | Taylor Mountain | 19 | 1S | 39E | 6500 |

|                 |   |                       |    |     |     |      |
|-----------------|---|-----------------------|----|-----|-----|------|
| BLACKFOOT RIVER |   |                       |    |     |     |      |
| 11G3            | I | Austin Brothers Ranch | 28 | 7S  | 43E | 6450 |
| 11G2M           | I | China Hat             | 17 | 7S  | 42E | 6300 |
| 11G5            | I | Slug Creek Divide     | 15 | 10S | 44E | 7225 |
| 11G1M           | I | Somsen Ranch          | 25 | 5S  | 43E | 7000 |

|                |   |                   |    |     |     |      |
|----------------|---|-------------------|----|-----|-----|------|
| PORTNEUF RIVER |   |                   |    |     |     |      |
| 11G25          | I | Cove              | 21 | 9S  | 39E | 5525 |
| 12G5M          | I | Dempsey Creek     | 17 | 10S | 38E | 6280 |
| 12G7M          | I | Lower Dempsey     | 5  | 10S | 38E | 5210 |
| 12G6M          | I | Lower Pebble      | 7  | 8S  | 38E | 5800 |
| 12G1           | I | Mink Creek        | 33 | 7S  | 34E | 6300 |
| 11G24          | I | Moser             | 20 | 8S  | 39E | 5950 |
| 11G23          | I | North Bancroft #1 | 15 | 8S  | 39E | 5460 |
| 11G22          | I | North Bancroft #2 | 27 | 7S  | 39E | 5430 |
| 12G2M          | I | Pebble Creek      | 34 | 7S  | 37E | 6550 |

## LEGEND

### Numbering System (example)

|        |  |
|--------|--|
| 10J7   | SNOW COURSE ONLY.  |
| 10J7P  | SNOW COURSE AND PRECIPITATION GAGE.                        |
| 10J7M  | SNOW COURSE AND SOIL MOISTURE STATION.                     |
| 10J7A  | SNOW COURSE AND AERIAL MARKER.                             |
| 10J7MA | SNOW COURSE, SOIL MOISTURE STATION AND AERIAL MARKER.      |
| 10J7MP | SNOW COURSE, SOIL MOISTURE STATION AND PRECIPITATION GAGE. |
| 10J7 m | SOIL MOISTURE STATION ONLY.                                |
| 10J7 a | AERIAL MARKER ONLY.  |
| 10J7 p | STORAGE PRECIPITATION GAGE ONLY.                           |

## SNOW

| DRAINAGE BASIN and SNOW COURSE |     |           | CURRENT INFORMATION |                        |                           | PAST RECORD            |                      |
|--------------------------------|-----|-----------|---------------------|------------------------|---------------------------|------------------------|----------------------|
|                                |     |           | DATE OF SURVEY      | SNOW DEPTH<br>(Inches) | WATER CONTENT<br>(Inches) | WATER CONTENT (Inches) |                      |
| NAME                           | NO. | ELEVATION |                     |                        |                           | LAST YEAR              | AVERAGE <sup>b</sup> |

UPPER SNAKE RIVER BASINCAMAS-BEAVER CREEKS

|                 |       |      |      |    |      |      |      |
|-----------------|-------|------|------|----|------|------|------|
| Blue Ledge Mine | 11E11 | 6700 | 4/1  | 63 | 23.0 | 11.7 | 16.7 |
| Camp Creek      | 12E3  | 6800 | 3/31 | 40 | 12.6 | 6.7  | 10.4 |
| Kilgore         | 11E12 | 6200 | 4/1  | 34 | 11.1 | 6.8  | 10.0 |

MEDICINE LODGE CREEK

|              |      |      |      |    |     |     |    |
|--------------|------|------|------|----|-----|-----|----|
| Irving Creek | 12E4 | 7035 | 3/28 | 22 | 6.6 | 3.4 | -- |
| Webber Creek | 12E5 | 6700 | 3/28 | 20 | 6.0 | 3.9 | -- |

HENRYS FORK RIVER

|                 |       |      |      |     |      |      |      |
|-----------------|-------|------|------|-----|------|------|------|
| Big Springs     | 11E9  | 6500 | 3/29 | 74  | 26.7 | 16.8 | 22.6 |
| Black Canyon    | 11E18 | 7850 | 3/27 | 106 | 39.8 | 28.8 | --   |
| Black Moose     | 11E19 | 8125 | 3/27 | 107 | 40.0 | 35.0 | --   |
| Grassy Lake     | 10E15 | 7230 | 3/30 | 98  | 34.8 | 28.8 | 36.8 |
| Island Park     | 11E10 | 6315 | 3/29 | 56  | 19.6 | 11.5 | 17.6 |
| Latham Springs  | 11E16 | 7650 | 3/27 | 103 | 38.2 | 27.2 | --   |
| Lucky Dog       | 11E14 | 6900 | 3/27 | 81  | 31.7 | 21.6 | --   |
| Old Road        | 11E15 | 7250 | 3/27 | 82  | 31.6 | 23.2 | --   |
| Poacher's Cabin | 11E17 | 8000 | 3/27 | 94  | 33.8 | 27.6 | --   |
| Valley View     | 11E8  | 6500 | 3/29 | 69  | 25.2 | 13.0 | 16.4 |

TETON RIVER

|                  |       |      |      |    |      |      |      |
|------------------|-------|------|------|----|------|------|------|
| Darby Canyon (A) | 10F21 | 8250 | 3/31 | 69 | 24.0 | 18.5 | --   |
| Pine Creek Pass  | 11F2  | 6750 | 3/31 | 50 | 17.4 | 13.0 | --   |
| State Line       | 11F1  | 6400 | 3/31 | 47 | 16.7 | 11.1 | 16.1 |
| Teton Pass       | 10F13 | 8500 | 3/31 | 89 | 34.2 | 22.0 | 37.4 |

WILLOW CREEK

|                   |       |      |      |    |      |     |    |
|-------------------|-------|------|------|----|------|-----|----|
| Aspen Grove       | 11F10 | 6600 | 3/30 | 33 | 11.0 | 6.8 | -- |
| Birch Creek       | 11F3  | 6800 | 3/30 | 32 | 11.0 | 2.4 | -- |
| Bone              | 11F8  | 6200 | 3/28 | 20 | 5.6  | 5.6 | -- |
| Ozone             | 11F4  | 5800 | 3/28 | 0  | 0.0  | 0.0 | -- |
| Sheep Mountain I  | 11F9  | 6450 | 3/28 | 39 | 12.9 | --  | -- |
| Sheep Mountain II | 11F11 | 6510 | 3/28 | 41 | 14.2 | 8.9 | -- |
| Tex Creek         | 11F5  | 6700 | 3/30 | 29 | 9.2  | 7.4 | -- |

SAND CREEK

|                 |      |      |      |    |     |     |    |
|-----------------|------|------|------|----|-----|-----|----|
| Henry Creek     | 11F6 | 5650 | 3/27 | 0  | 0.0 | T   | -- |
| Taylor Mountain | 11F7 | 6500 | 3/27 | 14 | 5.5 | 6.4 | -- |

(b) 1948-62, 15 year period. \* Not located directly on this drainage. \* Estimated 1948-62, 15 year Average. (A) Aerial observation; Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.

## SNOW

| DRAINAGE BASIN and SNOW COURSE |     |           | CURRENT INFORMATION |                     |                        | PAST RECORD            |                      |
|--------------------------------|-----|-----------|---------------------|---------------------|------------------------|------------------------|----------------------|
|                                |     |           | DATE OF SURVEY      | SNOW DEPTH (Inches) | WATER CONTENT (Inches) | WATER CONTENT (Inches) |                      |
| NAME                           | NO. | ELEVATION |                     |                     |                        | LAST YEAR              | AVERAGE <sup>b</sup> |

BLACKFOOT RIVER

|                    |      |      |      |    |      |      |       |
|--------------------|------|------|------|----|------|------|-------|
| Austin Bros. Ranch | 11G3 | 6450 | 3/31 | 26 | 8.6  | 7.0  | 8.5*  |
| China Hat          | 11G2 | 6300 | 3/31 | 19 | 5.9  | 6.2  | 5.6*  |
| Slug Creek Divide  | 11G5 | 7225 | 3/31 | 54 | 18.2 | 13.2 | 16.2  |
| Somsen Ranch       | 11G1 | 7000 | 3/31 | 46 | 16.0 | 10.9 | 12.6* |

PORTNEUF RIVER

|                   |       |      |      |    |      |      |       |
|-------------------|-------|------|------|----|------|------|-------|
| Cove              | 11G25 | 5525 | 3/27 | 16 | 5.1  | --   | --    |
| Dempsey Creek     | 12G5  | 6280 | 3/27 | 36 | 12.4 | 8.3  | 12.3* |
| Lower Pebble      | 12G6  | 5800 | 3/30 | 42 | 14.2 | 9.5  | --    |
| Mink Creek        | 12G1  | 6300 | 4/3  | 46 | 16.8 | 9.7  | 16.6  |
| Moser             | 11G24 | 5950 | 3/27 | 19 | 6.6  | --   | --    |
| North Bancroft #1 | 11G23 | 5460 | 3/27 | 0  | 0.0  | --   | --    |
| North Bancroft #2 | 11G22 | 5430 | 3/27 | 0  | 0.0  | --   | --    |
| Pebble Creek      | 12G2  | 6550 | 3/30 | 47 | 16.9 | 10.0 | 14.6  |

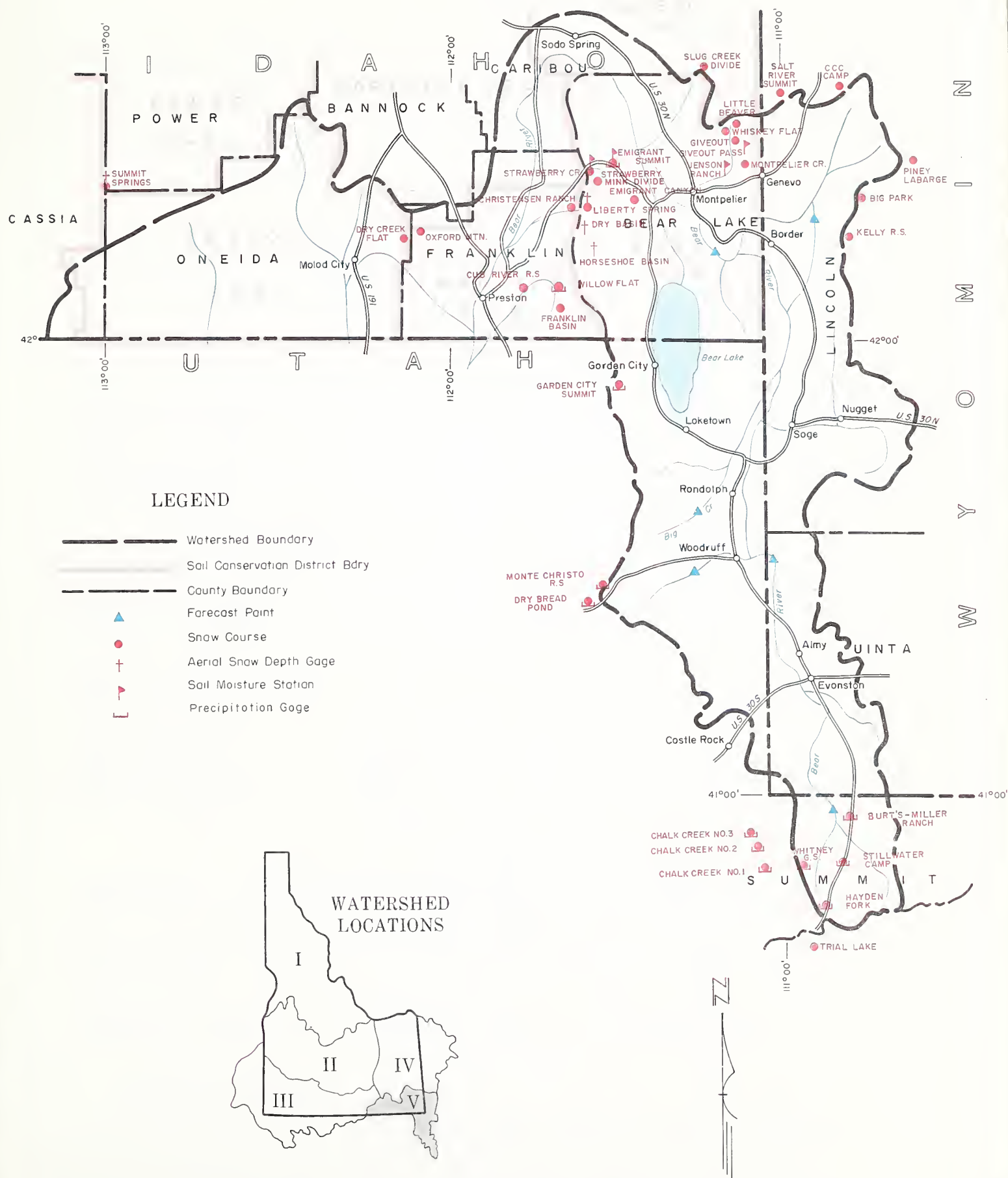
## SOIL MOISTURE

| STATION                   |           | PROFILE (Inches) |          | SOIL MOISTURE (Inches) |           |           |             |
|---------------------------|-----------|------------------|----------|------------------------|-----------|-----------|-------------|
|                           |           | DEPTH            | CAPACITY | DATE                   | THIS YEAR | LAST YEAR | 2 YEARS AGO |
| NAME                      | ELEVATION |                  |          |                        |           |           |             |
| <u>HENRY'S FORK RIVER</u> |           |                  |          |                        |           |           |             |
| Island Park               | 6315      | 48               | 9.9      | 3/29                   | 9.0       | 8.8       | 8.7         |
| Valley View               | 6500      | 48               | 13.3     | 3/29                   | 7.4       | 8.0       | 11.0        |
| <u>TETON RIVER</u>        |           |                  |          |                        |           |           |             |
| Pine Creek Pass           | 6750      | 48               | 13.3     | 3/31                   | 7.0       | 4.9       | 8.2         |
| State Line                | 6400      | 48               | 14.8     | 3/31                   | 10.6      | 12.5      | 12.7        |
| <u>PORTNEUF RIVER</u>     |           |                  |          |                        |           |           |             |
| Lower Pebble              | 5800      | 36               | 7.6      | 3/30                   | 6.0       | 8.3       | 6.6         |
| Pebble Creek              | 6550      | 48               | 7.2      | 3/30                   | 3.6       | 6.4       | 5.6         |

(b) 1948-62, 15 year period. # Not located directly on this drainage. \* Estimated 1948-62, 15 year Average. (A) Aerial observation; Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.



# GREAT BASIN



# INDEX to SNOW COURSES

| NO. | STATE | NAME | SEC. | TWP.      | RGE.  | ELEV. |
|-----|-------|------|------|-----------|-------|-------|
|     |       |      | LAT. | OR<br>ANO | LONG. |       |

## GREAT BASIN

### BEAR RIVER

|         |    |                           |    |     |      |      |
|---------|----|---------------------------|----|-----|------|------|
| 10G11   | Wy | Big Park                  | 7  | 27N | 117W | 8700 |
| 11H13MP | U  | Dry Bread Pond            | 19 | 8N  | 4E   | 8230 |
| 11G7    | I  | Emigration Canyon (mouth) | 24 | 12S | 42E  | 6500 |
| 11H7P   | U  | Garden City Summit        | 35 | 14N | 4E   | 7600 |
| 10J6    | U  | Burt's-Miller Ranch       | 19 | 3N  | 10E  | 7900 |
| 10J7    | U  | Hayden Fork               | 1  | 1S  | 9E   | 9300 |
| 10G12   | Wy | Kelly Ranger Station      | 13 | 26N | 118W | 8200 |
| 11H12P  | U  | Monte Cristo R. S.        | 3  | 8N  | 4E   | 8960 |
| 10G10   | Wy | Piney LaBarge             | 19 | 29N | 114W | 8820 |
| 10J17P  | U  | Stillwater Camp           | 32 | 2N  | 10E  | 8550 |
| 10J28P  | U  | Whitney G.S.              | 4  | 1N  | 9E   | 9300 |

### MONTPELIER CREEK

|        |   |                  |    |     |     |      |
|--------|---|------------------|----|-----|-----|------|
| 11G16  | I | Giveout          | 35 | 11S | 45E | 6840 |
| 11G17m | I | Giveout Pass     | 2  | 12S | 45E | 7025 |
| 11G19m | I | Jenson Ranch     | 15 | 12S | 45E | 6580 |
| 11G20  | I | Little Beaver    | 26 | 11S | 45E | 6970 |
| 11G18  | I | Montpelier Creek | 22 | 12S | 45E | 6570 |
| 11G21  | I | Whiskey Flat     | 26 | 11S | 45E | 6985 |

### MINK CREEK

|        |   |                        |    |     |     |      |
|--------|---|------------------------|----|-----|-----|------|
| 11G11  | I | Christensen Ranch      | 27 | 13S | 41E | 5600 |
| 11G14a | I | Dry Basin              | 30 | 13S | 42E | 7900 |
| 11G6MP | I | Enigrant Summit        | 21 | 12S | 42E | 7350 |
| 11G15a | I | Horseshoe Basin        | 31 | 13S | 42E | 8000 |
| 11G13A | I | Liberty Spring         | 7  | 13S | 42E | 3600 |
| 11G9M  | I | Strawberry Creek       | 9  | 13S | 41E | 5800 |
| 11G10  | I | Strawberry Mink Divide | 14 | 13S | 41E | 6800 |

### CUB RIVER

|       |   |                          |   |     |     |      |
|-------|---|--------------------------|---|-----|-----|------|
| 11G12 | I | Cub River Ranger Station | 5 | 15S | 41E | 5400 |
| 11G8  | I | Franklin Basin           | 1 | 16S | 41E | 3000 |
| 11G4P | I | Willow Flat              | 2 | 15S | 41E | 6100 |

### MALAD RIVER

|      |   |                 |    |     |     |      |
|------|---|-----------------|----|-----|-----|------|
| 12G4 | I | Dry Creek Flat  | 31 | 13S | 37E | 6350 |
| 12G3 | I | Oxford Mountain | 32 | 13S | 37E | 6800 |

## LEGEND

### Numbering System (example)

|        |  |
|--------|--|
| 10J7   | SNOW COURSE ONLY.  |
| 10J7P  | SNOW COURSE AND PRECIPITATION GAGE.                        |
| 10J7M  | SNOW COURSE AND SOIL MOISTURE STATION.                     |
| 10J7A  | SNOW COURSE AND AERIAL MARKER.                             |
| 10J7MA | SNOW COURSE, SOIL MOISTURE STATION AND AERIAL MARKER.      |
| 10J7MP | SNOW COURSE, SOIL MOISTURE STATION AND PRECIPITATION GAGE. |
| 10J7 m | SOIL MOISTURE STATION ONLY.                                |
| 10J7 a | AERIAL MARKER ONLY.  |
| 10J7 p | STORAGE PRECIPITATION GAGE ONLY.                           |

## SNOW

| DRAINAGE BASIN and SNOW COURSE |     |           | CURRENT INFORMATION |                     |                        | PAST RECORD            |                      |
|--------------------------------|-----|-----------|---------------------|---------------------|------------------------|------------------------|----------------------|
|                                |     |           | DATE OF SURVEY      | SNOW DEPTH (Inches) | WATER CONTENT (Inches) | WATER CONTENT (Inches) |                      |
| NAME                           | NO. | ELEVATION |                     |                     |                        | LAST YEAR              | AVERAGE <sup>b</sup> |

GREAT BASINBEAR RIVER

|                   |      |      |      |    |      |      |       |
|-------------------|------|------|------|----|------|------|-------|
| Emigrant Summit   | 11G6 | 7350 | 3/29 | 70 | 25.4 | 17.9 | 24.9  |
| Emigration Canyon | 11G7 | 6500 | 3/29 | 27 | 9.5  | 8.7  | 10.5* |

Montpelier Creek

|                  |       |      |      |    |      |      |    |
|------------------|-------|------|------|----|------|------|----|
| Giveout          | 11G16 | 6840 | 3/30 | 39 | 13.5 | 10.0 | -- |
| Little Beaver    | 11G20 | 6970 | 3/30 | 48 | 16.6 | 12.8 | -- |
| Montpelier Creek | 11G18 | 6570 | 3/30 | 20 | 7.1  | 8.6  | -- |
| Whiskey Flat     | 11G21 | 6985 | 3/30 | 25 | 7.5  | 8.1  | -- |

Mink Creek

|                        |       |      |      |     |      |      |       |
|------------------------|-------|------|------|-----|------|------|-------|
| Christensen Ranch      | 11G11 | 5600 | 3/28 | 23  | 9.0  | 5.4  | 8.6*  |
| #Emigrant Summit       | 11G6  | 7350 | 3/29 | 70  | 25.4 | 17.9 | 24.9  |
| Liberty Spring         | 11G13 | 8600 | 3/29 | 108 | 39.4 | 28.8 | --    |
| Strawberry Creek       | 11G9  | 5800 | 3/29 | 34  | 10.7 | 7.1  | 12.1* |
| Strawberry Mink Divide | 11G10 | 6800 | 3/27 | 60  | 24.4 | 13.2 | 22.6* |

Cub River

|                 |       |      |      |    |      |      |       |
|-----------------|-------|------|------|----|------|------|-------|
| Cub River R. S. | 11G12 | 5400 | 3/28 | 14 | 6.0  | 5.2  | 7.6*  |
| #Franklin Basin | 11G8  | 8000 | 3/31 | 77 | 28.3 | 22.2 | 29.1  |
| Willow Flat     | 11G4  | 6100 | 3/28 | 34 | 13.7 | 10.0 | 15.2* |

MALAD RIVER

|                 |       |      |      |    |      |     |      |
|-----------------|-------|------|------|----|------|-----|------|
| Dry Creek Flat  | 12G4  | 6350 | 3/27 | 9  | 3.2  | T   | 4.1* |
| Lower Elkhorn   | 12G11 | 6850 | 3/27 | 32 | 12.0 | --  | --   |
| Oxford Mountain | 12G3  | 6800 | 3/27 | 23 | 7.6  | 4.3 | 8.2* |
| Upper Elkhorn   | 12G10 | 7100 | 3/27 | 52 | 16.8 | --  | --   |

## SOIL MOISTURE

| STATION                 |           | PROFILE (Inches) |          | SOIL MOISTURE (Inches) |           |           |             |
|-------------------------|-----------|------------------|----------|------------------------|-----------|-----------|-------------|
|                         |           | DEPTH            | CAPACITY | DATE                   | THIS YEAR | LAST YEAR | 2 YEARS AGO |
| NAME                    | ELEVATION |                  |          |                        |           |           |             |
| <u>BEAR RIVER</u>       |           |                  |          |                        |           |           |             |
| Emigrant Summit         | 7350      | 36               | 8.2      | 3/29                   | 3.8       | 5.8       | 4.6         |
| Strawberry Creek        | 5800      | 48               | 12.7     | 3/29                   | 10.5      | 8.4       | 11.3        |
| <u>Montpelier Creek</u> |           |                  |          |                        |           |           |             |
| Jenson Ranch            | 6580      | 48               | 18.7     | 3/30                   | 9.4       | 11.3      | 17.1        |

(b) 1948-62, 15 year period. \* Not located directly on this drainage. \* Estimated 1948-62, 15 year Average. (A) Aerial observation; Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.





# Agencies and Organizations Cooperating in Idaho Snow Surveys

## GOVERNMENT AGENCIES

### Canada:

Department of Lands, Forests, and  
Water Resources, British Columbia  
Department of Resources and Development,  
Water Resources Division

### States:

Idaho State Reclamation Engineer  
State of Idaho Department of Fish and Game  
University of Idaho  
Idaho State University  
Montana Agricultural Experiment Station  
Montana State Water Conservation Board  
Nevada Cooperative Snow Surveys  
Oregon Agricultural Experiment Station  
Oregon Cooperative Snow Surveys  
Oregon State Engineer and Corps of  
State Watermasters  
Utah Cooperative Snow Surveys  
Wyoming Cooperative Snow Surveys

### Federal:

U. S. Army Engineers  
U. S. Department of Agriculture  
Forest Service  
Agricultural Research Service  
U. S. Department of Commerce  
Environmental Sciences Service Administration,  
Weather Bureau  
U. S. Department of the Interior  
Bonneville Power Administration  
Bureau of Reclamation  
Fish and Wildlife Service  
Water Resources Division, Geological Survey  
Indian Service  
National Park Service  
Bureau of Land Management

## PUBLIC UTILITIES

The Montana Power Company  
Washington Water Power Company  
Idaho Power Company  
Utah Power and Light Company

## ORGANIZED PUBLIC AGENCIES

Big Lost River Irrigation District  
Boise Project Board of Control  
Little Wood River Irrigation District  
Jordan Valley Irrigation District  
Salmon Falls Creek Irrigation Company  
Twin Falls Soil Conservation District  
Twin Lakes Irrigation Company  
Big Wood Irrigation Company  
Owyhee Project - North & South Board of Control

## PRIVATE CORPORATIONS

Amalgamated Sugar Company

*Other organizations and individuals furnish valuable information for  
snow survey reports. Their cooperation is gratefully acknowledged.*

UNITED STATES DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE  
P.O. BOX 38  
BOISE, IDAHO 83701

OFFICIAL BUSINESS

POSTAGE AND FEES PAID  
U. S. DEPARTMENT OF AGRICULTURE

**FIRST CLASS MAIL**

FEDERAL - STATE - PRIVATE  
**COOPERATIVE SNOW SURVEYS**

Furnishes the basic data  
necessary for forecasting  
water supply for irrigation,  
domestic and municipal water  
supply, hydro-electric power  
generation, navigation,  
mining and industry

*"The Conservation of Water begins  
with the Snow Survey"*

USDA NATIONAL AGRICULTURAL LIBRARY  
CURRENT SERIAL RECORD  
WASHINGTON, D.C. 20250